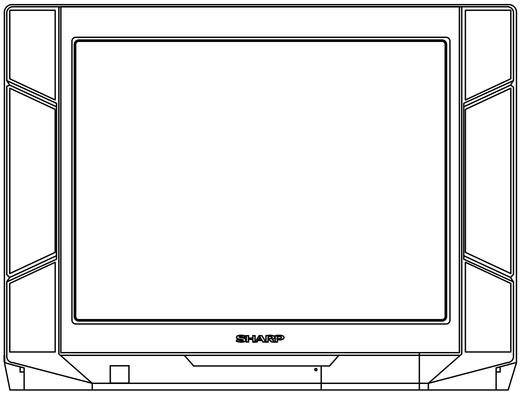
SHARP

SERVICE MANUAL
维修手册

S79K429A-SX1X



28 SYSTEM COLOUR TELEVISION
28制式彩色电视机

Chassis No. SP-91

MODELS
型　　号

29A-SX1
29A-SX5
29A-SX8

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

为了用户安全起见（根据一些国家的安全规程的需要）， 应将电视机保持于最初的状态，而且只能使用与指定物相同的部件。

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WARNING

The chassis in this receiver is partially hot. Use an isolation transformer between the line cord plug and power receptacle, when servicing this chassis. To prevent electric shock, do not remove cover. No user – serviceable parts inside. Refer servicing to qualified service personnel.

警　　告

该电视机底盘的有些部分通电。当维修本机底盘时，请在电源线插头和电源插座之间使用隔离变压器。为了防止电击的危险，不要去拆下机盖。在里面的部件，不是使用者所能维修的，必须委托够格的维修人员来进行维修。

SHARP CORPORATION

SERVICE MANUAL 维修手册　28 SYSTEM COLOUR TELEVISION 28制式彩色电视机　MODELS 型 号 29A-SX1/SX5/SX8

FEATURES

■World Multi 28 System.
■Component input Terminal(Rear).
■Twin Buss Reflex SP Box.
■Double Dynamic Picture Circuit.
■CATV Ready.
■PAL/NTSC Digital-Comb Filter.
■Sound Spatializer.
■Aperture Control Circuit.
■English/Chinese/Russian/French/Arabic/Malay 6 Language OSD.
■NICAM-I.B/G, IGR-B/G.
(Only for 29A-SX5/29A-SX8)
■Super Flat Picture Tube.
■CTI SRT Circuit.
■TEXT(English/German/French/Spanish/Italian/Swedish)
(Only for 29A-SX5)

性能

■世界通用多系统，共有28制式
■摄像机输入端子（后部）
■双总线反射ＳＰ盒
■倍动态图象电路
■可用于公用天线电视系统
■PAL/NTSC制式数字式梳形滤波器
■超立体声功能
■孔径控制电路
■英文/中文/俄文/法文/阿拉伯文/马来西亚文/等6种语言OSD
■NICAM-I、B/G、IGR-B/G制式(只有29A-SX5/29A-SX8)
■全平面图象管
■CTI SRT电路
■版本(英文/德文/法文/西班牙文/意大利文/瑞典文）(只有29A-SX5)

ELECTRICAL SPECIFICATIONS

Power Input	AC 110-240V, 50/60Hz (Auto)
Power Consumption	185W(29A-SX1) 195W(29A-SX5) 190W(29A-SX8)
Convergence	Self Convergence System
Focus	Bi-Potential, Uni-Potential Electroslatic
Sweep Deflection	Magnetic
Intermediate Frequency	
Picture IF Carrier	38.9 MHz
Sound IF Carrier	
6.5 MHz	32.4 MHz
6.0 MHz	32.9 MHz
5.5 MHz	33.4 MHz
4.5 MHz	34.4 MHz
Colour Sub-Carrier	
PAL/NTSC	34.47 MHz
SECAM	34.494/34.65 MHz
NTSC	35.32 MHz
Audio Power Output Rating	20W x 2 total 40W (Max)
Speaker	
Size	8 x 12 cm x 2pcs, 10cm Round x 2pcs.
Speaker Box Unit Impedance	6.2 ohm at 400Hz
Aerial Input Inpedance	75 ohm Unbalanced
Receiving Channels	
PAL-B/G, SECAM-B/G	
VHF	E2 thru E12
UHF	E21 thru E69
CATV	X thru Z + 2, S1 thru S41
PAL-D/K, SECAM-D/K	
VHF	R1 thru R12, C1 thru C12
UHF	21 thru 69, C21 thru C57
PAL-I, SECAM-I	
VHF	(IRELAND): B thru J
UHF	(U.K.,H.K.): 21 thru 69
NTSC-M	
VHF	(US): 2 thru 13 (JAPAN): 1 thru 12
UHF	(US): 14 thru 69 (JAPAN): 13 thru 62
CATV	(US): A-6 thru A-1 A thru W+29 (JAPAN): C13 thru C63
Receiving Frequency	
VHF	44.25 MHz thru 463.25 MHz(29A-SX1) 45.25 MHz thru 463.25 MHz(29A-SX5/SX8)
UHF	471.25 MHz thru 863.25 MHz
Dimensions	Width : 800mm Height : 579mm Depth : 484mm Weight (Approx) : 43.0kg

Specifications are subject to change without notice.

电路规格

电源	交流110～240V、50/60Hz(自动切换)
功率消耗	185W(29A-SX1) 195W(29A-SX5) 190W(29A-SX8)
聚焦	自聚焦系统
焦点	双电位，单电位静电焦点
扫描偏转	磁致偏转
中频	
图象中频载波	38.9MHz
声音中频载波	
6.5MHz	32.4MHz
6.0MHz	32.9MHz
5.5MHz	33.4MHz
4.5MHz	34.4MHz
色彩副载波	
PAL/NTSC制式	34.47MHz
SECAM制式	34.494/34.65MHz
NTSC制式	35.32MHz
音响额定输出功率	20W × 2=40W(最大)
扬声器	
尺寸	8 × 12cm椭圆型 × 1只,10cm圆形 × 2只
音圈阻抗	400Hz时,6.2Ω
天线输入阻抗	75Ω非平衡式
接收频道	
PAL-B/G、SECAM-B/G制式	
甚高频VHF	E2～E12频道
超高频UHF	E21～E69频道
有线电视CATV	X～Z+2频道 S1～S41频道
PAL-D/K、SECAM-D/K制式	
甚高频VHF	R1～R12频道 C1～C12频道
超高频UHF	21～69频道 C21～C57频道
PAL-I、SECAM-I制式	
甚高频VHF	（爱尔兰）：B～J频道
超高频UHF	（英国，香港）：21～69频道
NTSC-M制式	
甚高频VHF	（美国）：2～13频道 （日本）：1～12频道
超高频UHF	（美国）：14～69频道 （日本）：13～62频道
有线电视CATV	（美国）：A-6～A-1频道 A～W+29频道 （日本）：C13～C63频道
接收频率	
VHF	44.25MHz～463.25MHz(29A-SX1) 45.25MHz～463.25MHz(29A-SX5/SX8)
UHF	471.25MHz～863.25MHz
尺寸	宽：800mm 高：579mm 深：484mm 重量（约）：43.0公斤

上述规格变更之场合，恕不另行通知

IMPOTANT SERVICE NOTES

Maintenance and repair of this receiver should be done by qualified service peronnel only.

SERVICING OF HIGH VOLTAGE SYSTEM AND PICTURE TUBE

When servicing the high voltage system, remove static charge from it by connecting a 10k ohm Resistor in series with an insulated wire (such as a test probe) between picture tube dag and 2nd anode lead. (AC line cord should be disconnected from AC outlet.)

1. Picture tube in this receiver employs integral implosion protection.
2. Replace with tube of the same type number for continued safety.
3. Do not lift picture tube by the neck.
4. Handle the picture tube only when wearing shatterproof goggles and after discharging the high voltage completely.

X-RAY

This receiver is designed so that any X-Ray radiation is kept to an absolute minimum. Since certain malfunctions or servicing many produce potentially hazardous radiation with prolonged exposure at close range, the following precautions should be observed:

1. When repairing the circuit, be sure not to increase the high voltage to more than 33.0 kV (at beam 0µA) for the set.
2. To keep the set in a normal operation, be sure to make it function on 29.5 ± 1.5kV (at beam 1.7 mA) in the case of the set. The set has been factory-Adjusted to the above mentioned high voltage.
   ∴If there is a possibility that the high voltage fluctuates as a result of repairs, never forget to check for such high voltage after the work.
3. Do not substitute a picture tube with unauthorized types and/or brands which may cause excess X-Ray radiation.

BEFORE RETURNING THE RECEIVER

Before returning the receiver to the user, perform the following safety checks.

1. Inspect all lead dress to make certain that the leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the receiver.
2. Inspect all protective devices such as non-metallic control knobs, insulating fishpapers, cabinet backs, adjustment and compartment covers or shields, isolation resistor- capacity networks, mechanical insulators etc.

保养维修重要注意事项

本电视机的保养只得由专门技术人员进行。

关于高压系统和显象管的保养维修

对高压系统进行保养维修时，先于显象管管座金属部分与第二阳极引线间用绝缘线（诸如测试探针等）串接一只10kΩ的电阻器，以除去残留于高压系统中的静电。（之前，应从电源插座中拔出本机的电源引线插头。）

1. 本电视机显象管为整体内爆防护设计。
2. 为保证本电视机持久使用的安全，显象管的更换必须使用同型号者。
3. 搬移显象管时，不得倒持其颈部上提。
4. 拆装搬移显象管，必须先用布物等包护荧屏防碎玻璃，并且作完全放电处理后才能进行。

关于X射线

本电视机为无辐射的设计。因此，任何X射线均设计控制于最小绝对极限。然而，在发生故障或保障维修时，过长时间地暴露机芯内部加以放置之场合，便有可能在其近旁产生有害的X射线辐射影响。为此，务请遵循下述预防措施：

1. 维修调整本电视机内部电路时，切勿让其高压超过33.0kV（电子束电流为0μA时）。
2. 为保证本电视机的正常工作，务必保证其高压为29.5kV±1.5kV（电子束电流为1.7mA时）的工作条件。该工作条件值在本电视机出厂前已经调试验收。
   ∴本电视机一旦经维修调整，可能导致上述工作高压规定值发生偏动。因此，维修调整完毕，务请重新对其高压值进行确认检查。
3. 更换显象管时，不得使用非经认可的、不同厂家、不同型号的显象管，以免产生超过规定标准的X射线辐射的危险。

维修后归还之前

在把维修后的电视机归还给用户之前，务请进行下列的安全检查。

1. 检查电视机中的所有导线的绝缘包皮有无扭折破损之处，于机芯底板和其它金属部件之间有无他物夹杂。
2. 检查电视机中的所有非金属质的控制旋钮、绝缘鱼鳞纸，机壳后盖、调节器和仪器隔室盖罩或屏蔽，电阻—电容隔离网以及机械部件隔离器等保护绝缘装置、器材。

ADJUSTMENT PRECAUTION

The model is a mixture of the adjustment items of I²C BUS-CONTROL and the existing analog adjustment. Moreover, since the adjustment with I²C BUS-CONTROL is composed of the items which are set with the initial values (preset values) alone and the data variable items, refer to the following.

1) Setting method to the microcomputer service mode

① When the TP1001/1002 are short-circuited, enter into the service mode (I²C BUS CONTROL adjustment mode).
② The modes can be sequentially selected with the CH DOWN key of R/C. (or button of set behind door.)
③ The modes can be sequentially selected in the reversed order of ② with the CH UP key of R/C. (or button of set behind door.)
④ The data can be converted with the VOLUME UP/DOWN key of R/C. (or button of set behind door.)
⑤ When the short circuit between the TP1001/1002 is cut off, it will be released from the service mode.

2) Initial value (preset value) setting

① When the MAIN POWER switch set at the service mode side is turned on, the initial value will be automatically set only on the new E²PROM (discriminated with the head 4 bytes).
② The initial data is set as shown in the attached sheets.
③ Take care that there are the items which need be changed and the items in which the initial values continue set.

Instruct that it must set at the service mode side as shown in Item 2-① and the MAIN POWER switch must be turned on when the lamp is first turned on after the chassis is assembled.
Take care that the beam current may excessively flow if the lamp is turned on unless E²PROM is initialized.

3) Since the E²PROM memory is submitted with the attached sheets for reference, use it.

调整时的注意事项

在本型号中，按照I²C总线控制的调整项目和历来的模拟调整混在一起。并且，按照I²C总线控制进行调整时，由于有只进行初始值（预先设定值）设定的项目和数据可变的项目，因此在调整时请参照下面的说明。

1) 进行微机保养调整状态的设定方法

① 将SET UP的跨接片TP1001/1002进行连接就可进行保养调整状态的设定（I²C总线控制调整状态）。
② 通过R/C的频道下移(CH DOWN)键可以按照顺序选择各调整状态。（或门后的设定按钮）
③ 通过R/C的频道上移(CH UP)键可以按照与2相反的顺序选择各调整状态。（或门后的设定按钮）
④ 通过R/C的音量上移/下移(VOLUME UP/DOWN)键可以进行数据变换。（或门后的设定按钮）
⑤ 将SET UP的跨接片TP1001/1002的连接断开的话，就可解除保养调整状态。

2) 初始值（预先设定值）的设定

① 当设定于保养调整状态时，如果主电源开关(MAIN POWER SW)置于开(ON)，而且E²PROM是第一次使用的话（根据前面的4个字节进行判断），则自动地进行初始值设定。
② 有关所设定的初始值请参照其它页。
③ 由于有要进行数据变更的项目和不必改变初始值的项目，请加以注意。

应注意必须在项目2-①中所示的维修保养状态下进行设定，而且指示灯在底盘组装之后第 1 次亮灯时必须接通MAIN POWER(主电源)开关。

3) 请使用附属于E²PROM的说明书。

SERVICE MODE

The service key selects the service mode. (Refer to the attached table.)
Select the item with CH UP/DOWN key, and change the data with VOL UP/DOWN key.
Moreover, in the service mode, the item can be directly selected by entering the following key.

Service item	R/C-CODE	Remarks
SERVICE MODE		
CUTOFF BKGD	CONT-UP	
CUTOFF BKGD DVD	CONT-UP	*1
V-AMP50	COL-UP	
V-LINE50	COL-DOWN	
V S-CORR50	BRI-UP	
V-CENT50	BRI-DOWN	
H-CENT50	TINT-UP	
H-SIZE50	TINT-DOWN	
E/W PAR	CONT-DOWN	
E/W COR	SPA-DOWN	
TRAPE	BAL-UP	
SCM BELL	SHARP-UP	
SCM R-Y	SHARP-DOWN	
SCM B-Y	TRE-UP	
SUB COL	SPA-UP	
SUB COL DVD	SPA-UP	*1
SUB TINT	BASS-DOWN	
SUB TINT DVD	BASS-DOWN	*1
SUB BRI	BASS-UP	
SUB BRI DVD	BASS-UP	*1
SUB CONT	TRE-DOWN	
SUB CONT DVD	TRE-DOWN	*1
SUB VOL	BAL-DOWN	
V-AMP60	COL-UP	*2
V-LINE60	COL-DOWN	*2
V S-CORR60	BRI-UP	*2
V-CENT60	BRI-DOWN	*2
H-CENT60	TINT-UP	*2
H-SIZE60	TINT-DOWN	*2

*1 To receive DVD, switch the key input.
*2 To receive the main 60Hz when inputting the key, switch it from 50Hz key.

保养调整状态

通过保养调整键进入保养调整状态。(请参照附表)
请用频道上移/下移(CH UP/DOWN)键选择项目，再用音量上移/下移(VOL UP/DOWN)变更数据。
此外在保养调整状态时，可通过以下键来直接选择项目。

保养调整项目	R/C编码	备注
保养调整状态		
CUTOFF BKGD	CONT-UP	
CUTOFF BKGD DVD	CONT-UP	*1
V-AMP50	COL-UP	
V-LINE50	COL-DOWN	
V S-CORR50	BRI-UP	
V-CENT50	BRI-DOWN	
H-CENT50	TINT-UP	
H-SIZE50	TINT-DOWN	
E/W PAR	CONT-DOWN	
E/W COR	SPA-DOWN	
TRAPE	BAL-UP	
SCM BELL	SHARP-UP	
SCM R-Y	SHARP-DOWN	
SCM B-Y	TRE-UP	
SUB COL	SPA-UP	
SUB COL DVD	SPA-UP	*1
SUB TINT	BASS-DOWN	
SUB TINT DVD	BASS-DOWN	*1
SUB BRI	BASS-UP	
SUB BRI DVD	BASS-UP	*1
SUB CONT	TRE-DOWN	
SUB CONT DVD	TRE-DOWN	*1
SUB VOL	BAL-DOWN	
V-AMP60	COL-UP	*2
V-LINE60	COL-DOWN	*2
V S-CORR60	BRI-UP	*2
V-CENT60	BRI-DOWN	*2
H-CENT60	TINT-UP	*2
H-SIZE60	TINT-DOWN	*2

※1. 接收DVD信号时，转换输入键。
※2. 输入键的60Hz接收时，用50Hz键进行转换。

进入保养调整状态时，即会读出E^{2}PROM的地址代码00H～03H的数据，此时，如果与以下数据不同时，则应按下表所示进行E^{2}PROM的初始化处理。

00H : 23　01H : 77　02H : 42　03H : A5

● 调整项目

1. 保养调整状态 1

编号	设定项目	数据范围	OSD显示	IC	数据设定	初始值	备注
0	无		SERVICE MODE				
1	截止调整		CUTOFF BKGD		*	*	R30 G66 B0 G-D-62 B-D-72
2	垂直尺寸调整(50Hz)	0~127	V-AMP50	PDC	V-AMPLITUDE	110	97
3	垂直线性度调整(50Hz)	0~31	V-LINE50	PDC	V-LINEARITY	23	26
4	垂直S字校正调整(50Hz)	0~63	V S-CORR50	PDC	V-S.CORRECTION	40	40
5	垂直位置调整(50Hz)	0~7	V-CENT50	V/C/D	V-PHASE	4	5
6	水平位置调整(50Hz)	0~31	H-CENT50	V/C/D	H-PHASE	13	14
7	水平尺寸调整(50Hz)	0~63	H-SIZE50	PDC	H-SIZE	32	26
8	SECAM制式红色亮度调整	0~15	R-Y	SECAM	R-Y	8	6
9	SECAM制式蓝色亮度调整	0~15	B-Y	SECAM	B-Y	8	6
10	副亮度调整	0~255	SUB BRI	V/C/D	BRIGHTNESS	70	用户亮度调节的中间值为122
11	副亮度调整(DVD)	0~255	SUB BRI DVD	V/C/D	BRIGHTNESS	9	DVD模式时用户亮度调节的中间值为116
12	副对比度调整	0~31	SUB CONT	V/C/D	SUB CONTRAST	20	17
13	副对比度调整(DVD)	0~31	SUB CONT DVD	V/C/D	SUB CONTRAST	19	16
14	副色调调整	0~127	SUB TINT	V/C/D	TINT	59	用户色度调节的中间值为72
15	副色调调整(DVD)	0~127	SUB TINT DVD	V/C/D	TINT	54	DVD模式时用户色度调节的中间值为54
16	垂直尺寸调整(60Hz)	0~127	V-AMP60	PDC	V-AMPLITUDE	110	97
17	垂直线性度调整(60Hz)	0~31	V-LINE60	PDC	V-LINEARITY	21	24
18	垂直S字校正调整(60Hz)	0~63	V S-CORR60	PDC	V-S.CORRECTION	40	40
19	垂直位置调整(60Hz)	0~7	V-CENT60	V/C/D	V-PHASE	1	2
20	水平位置调整(60Hz)	0~31	H-CENT60	V/C/D	H-PHASE	17	16
21	水平尺寸调整(60Hz)	0~63	H-SIZE60	PDC	H-SIZE	1	27
22	彩色解码器色度调节（自动）	0~127	COL TINT AUTO	V/C/D	COLOUR DECODER	67	67
23	彩色解码器色度调节（强制）	0~127	COL TINT	V/C/D	COLOUR DECODER	56	58
24	副彩色调整	0~127	SUB COL	V/C/D	COLOUR	70	用户彩色调节的中间值为60
25	副彩色调整(DVD)	0~127	SUB COL DVD	V/C/D	COLOUR	67	DVD模式时用户彩色调节的中间值为50
26	垂直高压补偿	0~7	V-COM	PDC	V-COMPENSATION	7	7
27	垂直位置	0~3	V-SHIFT	PDC	V-SHIFT REG	2	2
28	抛物面调整	0~63	E/W PAR	PDC	E-W PARABORA	46	42
29	角部调整	0~31	E/W COR	PDC	E-W CORNER	19	19
30	梯形校正	0~127	TRAPE	PDC	TRAPEZIUM	61	66
31	水平高压补偿	0~7	H-COM	PDC	H-COMPENSATION	4	4
32	水平位置	0~7	H-CENT	PDC	H-CENT	3	3
33	垂直校正	0~15	V-∫COR	PDC	V-∫ CORRECTION	10	10
34	调节贝尔滤波器	0~255	SCM BELL	SECAM	BELL FILTER	122	120
35	副音量调整	0~63	SUB VOL	SPA	VOLUME	50	用户音量调节的最大值为49

［注意］

※1 50Hz数据设定时，应调节其设定数据，以进行60Hz数据的设定。（但是，设定60Hz数据时，50Hz数据则不会变化）

※2 为固定数据，无特殊指定外，不需进行任何设定。

※3 不能设定数据“6”、“7”，请使用“0～“5”。另外，请确认是否使用数据“6”、“7”。

※4 单图象数据设定时，应调节其设定数据，以进行双画面数据的设定。

Data at Address 00H thru 03H of E^{2}PROM are read during shift to the service mode.
If any data is different from the following, E^{2}PROM will be initializes as shown in the table.

00H : 23　01H : 77　02H : 42　03H : A5

- Adjusting item

1. Service mode 1

No.	Initial value	Data range	OSD display	IC	Data setting	Initial value	Remarks
0	Blank		SERVICE MODE				
1	Cutoff adjustment		CUTOFF BKGD		*	*	R30 G66 B0 G-D-62 B-D-72
2	Vertical size adjustment (50Hz)	0~127	V-AMP50	PDC	V-AMPLITUDE	110	97
3	Vertical linearity adjustment (50Hz)	0~31	V-LINE50	PDC	V-LINEARITY	23	26
4	Vertical S type compensation adjustment (50Hz)	0~63	V S-CORR50	PDC	V-S.CORRECTION	40	40
5	Vertical position adjustment (50Hz)	0~7	V-CENT50	V/C/D	V-PHASE	4	5
6	Horizontal position adjustment (50Hz)	0~31	H-CENT50	V/C/D	H-PHASE	13	14
7	Horizontal size adjustment (50Hz)	0~63	H-SIZE50	PDC	H-SIZE	32	26
8	SECAM R-Y adjustment	0~15	R-Y	SECAM	R-Y	8	6
9	SECAM B-Y adjustment	0~15	B-Y	SECAM	B-Y	8	6
10	BRIGHTNESS sub adjustment	0~255	SUB BRI	V/C/D	BRIGHTNESS	70	Center value to user BRIGHTNESS adjustment 122
11	BRIGHTNESS sub adjustment (DVD)	0~255	SUB BRI DVD	V/C/D	BRIGHTNESS	9	Center value to user BRIGHTNESS adjustment the DVD mode 116
12	SUB CONTRAST sub adjustment	0~31	SUB CONT	V/C/D	SUB CONTRAST	20	17
13	SUB CONTRAST sub adjustment (DVD)	0~31	SUB CONT DVD	V/C/D	SUB CONTRAST	19	16
14	SUB-TINT adjustment	0~127	SUB TINT	V/C/D	TINT	59	Center value to user TINT adjustment
15	SUB-TINT adjustment(DVD)	0~127	SUB TINT DVD	V/C/D	TINT	54	Center value to user TINT adjustment the DVD mode 54
16	Vertical size adjustment (60Hz)	0~127	V-AMP60	PDC	V-AMPLITUDE	110	97
17	Vertical linearity adjustment (60Hz)	0~31	V-LINE60	PDC	V-LINEARITY	21	24
18	Vertical S type compensation adjustment (60Hz)	0~63	V S-CORR60	PDC	V-S.CORRECTION	40	40
19	Vertical position adjustment (60Hz)	0~7	V-CENT60	V/C/D	V-PHASE	1	2
20	Horizontal position adjustment (60Hz)	0~31	H-CENT60	V/C/D	H-PHASE	17	16
21	Horizontal size adjustment (60Hz)	0~63	H-SIZE60	PDC	H-SIZE	1	27
22	Colour decoder TINT adjustment (AUTO)	0~127	COL TINT AUTO	V/C/D	COLOUR DECODER	67	67
23	Colour decoder TINT adjustment (forcible)	0~127	COL TINT	V/C/D	COLOUR DECODER	56	58
24	COLOUR sub adjustment	0~127	SUB COL	V/C/D	COLOUR	70	Center value to user COLOUR adjustment 60
25	COLOUR sub adjustment(DVD)	0~127	SUB COL DVD	V/C/D	COLOUR	67	Center value to user COLOUR adjustment the DVD mode 60
26	Vertical high voltage compensation	0~7	V-COM	PDC	V-COMPENSATION	7	7
27	Vertical position	0~3	V-SHIFT	PDC	V-SHIFT REG	2	2
28	Parabola adjustment	0~63	E/W PAR	PDC	E-W PARABORA	46	42
29	Corner adjustment	0~31	E/W COR	PDC	E-W CORNER	19	19
30	Trapezoid compensation	0~127	TRAPE	PDC	TRAPEZIUM	61	66
31	Horizontal high voltage compensation	0~7	H-COM	PDC	H-COMPENSATION	4	4
32	Horizontal position	0~7	H-CENT	PDC	H-CENT	3	3
33	Vertical compensation	0~15	V-∫COR	PDC	V-∫ CORRECTION	10	10
34	BELL filter adjustment	0~255	SCM BELL	SECAM	BELL FILTER	122	120
35	Sound volume adjustment	0~63	SUB VOL	SPA	VOLUME	50	Max value to user VOLUME adjustment 49

[Remarks]

*1 When 50Hz data is set, the setting data is increased or decreased to set 60Hz data.
(However, 50Hz data does not vary when 60Hz data is set.)

*2 Because of the fixed data, it is unnecessary to set the data unless otherwise specified.

*3 It is impossible to set (use) the data “6” and “7”. Use “0” thru “5”.
Moreover, check whether “6” and “7” are used or not.

*4 When the data for the 1-screen mode is set, the set data is increased or decreased to set the data for the 2-screen mode.

29A-SX SYSTEM INITIAL SETTING AT FACTORY

SKIP	ON (POS 0), OFF (POS 1~99)	
Image system	AUTO	(All POS)
NICAM forcible FM	OFF	(All POS)
NICAM DS	M1	(All POS)
NICAM ST	STEREO	(All POS)
NICAM MONO	MONO	(All POS)
IGR forcible FM	OFF	(All POS)
IGR ST	STEREO	(All POS)
IGR DS	MAIN	(All POS)
Last POWER	ON	
TV/AV	TV	
Last POS	1	
FB POS	1	
SAVE	OFF	
AUTOSELECT	ON	
BLUEBACK	OFF	
DIGIT	2 DIGIT	
H/P VOL	0	
BALANCE	0 (Center)	
VOLUME	0	
OFF-TIMER	Not set.	
ON-TIMER POS	Not set.	
ON-TIMER VOL	Not set.	
REMINDER	Not set.	
Entertainment	MOVIE	

<AV menu : Entertainment>

Mode	STANDARD	MUSIC	MOVIE	NEWS
CONTRAST	60	60	60	60
COLOUR	0	0	0	0
BRIGHTNESS	0	0	0	0
TINT	0	0	0	0
SHARPNESS	0	0	0	0
WHITE-TEMP	0	+1 step to Blue	+1 step to Red	0
YNR	OFF	ON [I]	ON [I]	ON [I]
S-BOOST	OFF	ON [III]	ON [II]	ON [I]
SPATIALIZER	OFF	ON [I] : 0	ON [I] : 0	OFF
TREBLE	0	0	0	0
BASS	0	0	0	0

<Shipment setting key>

	Voice system	LANGUAGE
INITIAL 1	D/K	CHINESE
INITIAL 2	I	CHINESE
INITIAL 3	B/G	ENGLISH
INITIAL 4	B/G	ARABIC
INITIAL 5	D/K	RUSSIAN
INITIAL 6	B/G	MALAY
INITIAL 7	D/K	FRENCH

<Factory setting and geomagnetic adjustment mode by model (reference)>

Model name suffix	Earth magnetism(nT)		Background	X	Y
	V	H			
B	20,000	40,000	12,300° K	0.272	0.275
C(SINGAPORE)	–10,000	40,000	12,300° K	0.272	0.275
G/F	30,000	20,000	12,300° K	0.272	0.275
G(AFRICA)	–10,000	40,000	12,300° K	0.272	0.275
Z	–50,000	20,000	12,300° K	0.272	0.275
J	45,000	20,000	7,500° K	0.300	0.310

29A-SX系统出厂时的初始设定

跳跃(SKIP)	开(位置 0), 关(位置 1 ~ 99)	
视频系统	自动	(全位置)
NICAM强制FM	关	(全位置)
NICAM DS	M1	(全位置)
NICAM ST	立体声	(全位置)
NICAM MONO	单色画面	(全位置)
IGR 强制FM	关	(全位置)
IGR ST	立体声	(全位置)
IGR DS	主画面	(全位置)
最后电源	开	
电视／音像	电视	
最后位置	1	
副最后位置	1	
保存	关	
自动选择	开	
蓝色背景	关	
DIGIT	2DIGIT	
H/P VOL	0	
平衡	0(中心)	
音量	0	
OFF-TIMER	未设定	
ON-TIMER POS	未设定	
ON-TIMER VOL	未设定	
REMINDER	未设定	
ENTERTAINMENT	MOVIE	

<各AV项目：文娱>

状态	STANDARD	MUSIC	MOVIE	NEWS
CONTRAST	60	60	60	60
COLOUR	0	0	0	0
BRIGHTNESS	0	0	0	0
TINT	0	0	0	0
SHARPNESS	0	0	0	0
WHITE-TEMP	0	至蓝色+1阶	至红色+1阶	0
YNR	OFF	ON [I]	ON [I]	ON [I]
S-BOOST	OFF	ON [III]	ON [II]	ON [I]
SPATIALIZER	OFF	ON [I] : 0	ON [I] : 0	OFF
TREBLE	0	0	0	0
BASS	0	0	0	0

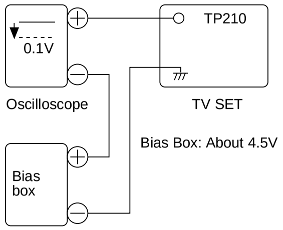
＜出厂设定键＞

	声音系统	LANGUAGE
INITIAL 1	D/K	CHINESE
INITIAL 2	I	CHINESE
INITIAL 3	B/G	ENGLISH
INITIAL 4	B/G	ARABIC
INITIAL 5	D/K	RUSSIAN
INITIAL 6	B/G	MALAY
INITIAL 7	D/K	FRENCH

<对于各种型号所进行的出厂时的设定和地磁调整。（参考）>

机型名称尾标	地磁(nT)		背景	X	Y
	V	H			
B	20,000	40,000	12,300° K	0.272	0.275
C(SINGAPORE)	–10,000	40,000	12,300° K	0.272	0.275
G/F	30,000	20,000	12,300° K	0.272	0.275
G(AFRICA)	–10,000	40,000	12,300° K	0.272	0.275
Z	–50,000	20,000	12,300° K	0.272	0.275
J	45,000	20,000	7,500° K	0.300	0.310

SERVICE ADJUSTMENT
PIF CHECK ADJUSTMENT

NO.	Adjustment part	Adjusting procedure and conditions	Waveform and others
1	RF-AGC Cut-in adjustment (Already preset.)	① E-12CH (PAL Colour Bar) is received. Electric field strength: 54 ± 1dBμV (75Ω Open) ② Connect the oscilloscope to TP210 as shown below.  0.1V TP210 Oscilloscope TV SET Bias box Bias Box: About 4.5V Fig. 3-1 ③ Lower the input electric field strength to 51 ± 1dBμV (75Ω Open). ④ Under the conditions ① and ③, TP210 voltage does not vary. Raise the input signal electric field strength to 60 ± 1dBμV (75Ω Open), and verify that it is 0.1V or more lower than TP210 of ① and ③. ⑤ Set the signal at 63 to 67dBμV, and verify that any noise is not output. ⑥ Set the signal at 90 to 95dBμV, and verify that any black letter beat is not output.	Note: If the impedance converter of 50/75 is not used at the electric field strength meter of 50Ω system, set 52 ± 1dBV for 54 ± 1dBμV (75Ω Open). Moreover, take care for the loss if the converter is used. * If there is not any problem when the several lots of the model which employs the relevant tuner is checked, apply the check of only ⑤ and ⑥.

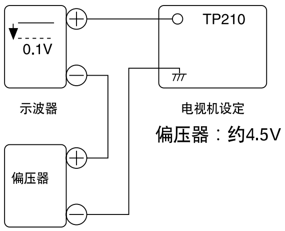
VIDEO LEVEL ADJUSTMENT

NO.	Adjustment part	Adjusting procedure and conditions	Waveform and others
1	VIDEO DET Level adjustment R220	① E-12CH B/G-PAL colour bar (100% white bar) is received. ② Adjust R220 to make the video output of the AV-OUT terminal become 1.0 ± 0.05Vp-p at the 75Ω terminator.	

DIGITAL COMB FILTER Y LEVEL ADJUSTMENT

NO.	Adjustment part	Adjusting procedure and conditions	Waveform and others
1	Digital comb filter Y level adjustment R5406	① Input PAL colour bar signal (100% white colour bar) of 1.0Vp-p at the 75Ω terminator from AV-IN terminal. (Input level 1.0Vp-p ± 0.05Vp-p) ② Connect the oscilloscope to TP5400. ③ Adjust R5406 to make the Y signal (100% white) of TP5400 become 2.0 ± 0.1Vp-p. * Verify that all are linearly amplified. (100% white area must not be collapsed.)	When it is adjusted at E-12ch, take care for the voltage value.

保养调整
PIF的确认调整

编号	调整处	调整步骤和条件	波形以及其它
1	调节RF-AGC 接通信号 (预设)	① 接收E-12频道(彩条)信号。 电场强度：54 ± 1dB μ V(75 Ω 电阻) ② 按以下所示，连接TP210示波器。  0.1V TP210 示波器 电视机设定 偏压器：约4.5V 偏压器 图3-1 ③ 将输入电场强度调节到51 ± 1dB μ V(75 Ω 电阻)。 ④ 以①的条件和③的测定值，使TP210电压不发生变化。 输入信号电场强度上升到60 ± 1dB μ V(75 Ω 电阻)，并与①和③的TP210的电压进行比较，然后再检查是否达到0.1V以上的规定要求。 ⑤ 将信号调节到63 ~ 67dB μ V，直至无噪声出现。 ⑥ 将信号调节到90 ~ 95dB μ V，直至无交扰调制差拍出现。	注意： 在50 Ω 类的电场强度计上，不使用50 /75阻抗变换器时，应使54 ± 1dB μ V (75 Ω 电阻)成为52 ± 1dB μ V。 另外，如果使用变换器时，应注意损耗状态。 ＊ 若确认调谐器型号批量没有问题时，仅确认⑤、⑥项目即可。

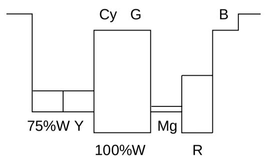
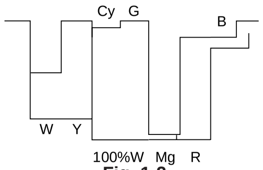
视频检波电平的调整

编号	调整处	调整步骤和条件	波形以及其它
1	调节视频检波电平：R220	① 接收E-12频道的B/G-PAL制式彩条(100％白色彩条)信号。 ② 调节R220，用75 Ω 终端，使AV-OUT端子的视频输出达到1.0 ± 0.05Vp-p。	

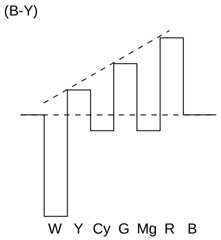
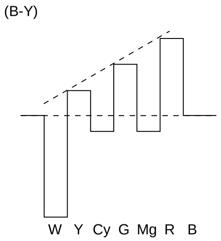
数字式梳形滤波器的调整

编号	调整处	调整步骤和条件	波形以及其它
1	调节数字式梳形滤波器的亮度信号电平：R5406	① 通过AV-IN端子，用75 Ω 终端输入1.0Vp-p的PAL制式彩条信号(100％白色彩条)。 （输入电平为1.0Vp-p ± 0.05Vp-p) ② 将示波器连接在TP5400。 ③ 调整R5406，使TP5400的亮度信号（100％白色信号）调节到2.0 ± 0.1Vp-p。 ※确认整个直线性是否放大。（100％的白色部分处于正常状态）	用E-12频道进行调节时，应注意电压值。

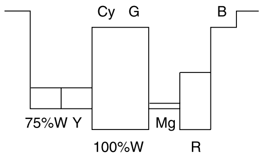
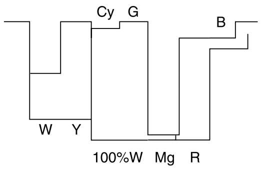
PAL CHROMA ADJUSTMENT

NO.	Adjustment part	Adjusting procedure and conditions	Waveform and others
1-1	SUB-COLOUR I²C bus adjustment (RF signal)	① E-12CH(PAL colour bar) is received. ② Make the image normal with the remote controller. ③ Connect the oscilloscope to TP3802. (10:1 probe is used.) Range: 2V/Div. Sweep time : 20µsec/Div. ④ Set the sub colour adjustment mode with the remote controller, and vary the sub colour data to make 100%W of the colour bar and RED at the same level for adjustment shown in Fig. 1-1.	 Fig. 1-1
1-2	* SUB-COLOUR I²C bus adjustment (DVD signal)	① DVD signal is received. (Half colour bar signal) ② Make the image normal with the remote controller. ③ Connect the oscilloscope to TP3802. (10:1 probe is used.) Range : 2V/Div. Sweep time: 20µsec/Div. ④ Set the sub colour adjustment mode (DVD) with the remote controller, and vary the sub colour (DVD) data to make 100%W of the colour bar and RED at the same level for adjustment shown in Fig. 1-2. (* It is being examined.)	 Fig. 1-2

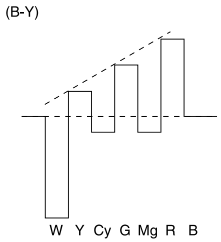
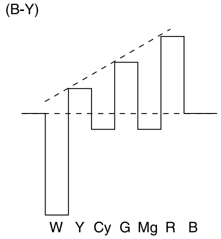
NTSC CHROMA ADJUSTMENT

NO.	Adjustment part	Adjusting procedure and conditions	Waveform and others
1-1	SUB-TINT I²C bus adjustment (RF signal)	① Select the sub-tint adjustment mode (automatic Y cut) to receive JA-8CH(NTSC colour bar). ② Connect the oscilloscope to TP800 (B-Y). Range : 20mV/Div. (AC) Sweep time: 20µsec/Div. (10:1 probe is used.) ③ Vary the sub tint data to adjust the waveform to be gained as shown in Fig. 1-1. TP800 ....(KY) 6 pin	 Fig. 1-1
1-2	* SUB-TINT I²C bus adjustment (DVD signal)	① Select the sub-tint adjustment mode (automatic Y cut) to receive the DVD colour bar signal. ② Connect the oscilloscope to TP800(B-Y). Range : 20mV/Div. (AC) Sweep time: 20µsec/Div. (10:1 probe is used.). ③ Vary the sub tint data to adjust the waveform to be gained as shown in Fig. 1-1. ④ Release the adjustment mode.	 Fig. 1-1

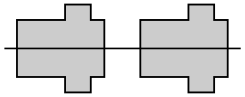
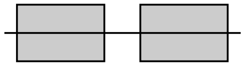
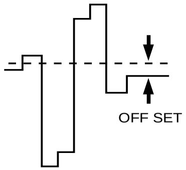
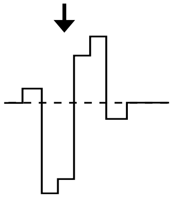
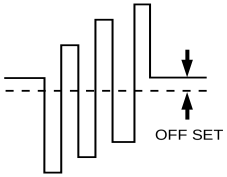
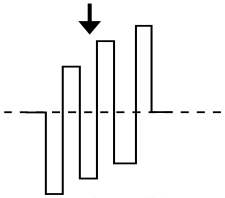
PAL制式色度信号的调整

编号	调整处	调整步骤和条件	波形以及其它
1-1	调节副彩色 I²C总线控制 (RF信号)	① 接收E-12频道（PAL制式彩条）信号。 ② 用遥控器将视频设定在标准状态。 ③ 将示波器连接在TP3802上。（使用10：1的探针）。 测量范围：2V/段 扫频时间：20微秒/段 ④ 用遥控器设定副彩色调整状态后，按图1-1调节副彩色数据，使彩条的100％白色 信号和红色信号呈相同水平。	 图1-1
1-2	* 调节副彩色 I²C总线控制 (DVD信号)	① 接收DVD信号(半调彩条信号）。 ② 用遥控器将视频设定在标准状态。 ③ 将示波器连接在TP3802上。（使用10：1的探针） 测量范围：2V/段 扫频时间：20微秒/段 ④ 用遥控器设定副彩色调整状态(DVD)后，按图1-2调节副彩色(DVD)数据，使彩条的100％白色信号和红色信号呈相同水平。 （必须使用调节用信号发生器）	 图1-2

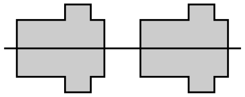
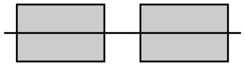
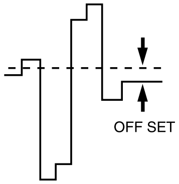
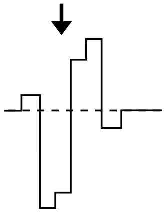
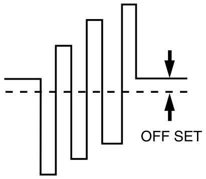
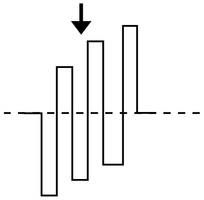
NTSC制式色度信号的调整

编号	调整处	调整步骤和条件	波形以及其它
1-1	调节副色调 I²C总线控制 (RF信号)	① 设定副色调调整状态（自动截止亮度信号），于JA-8频道（NTSC制式彩条）接收信号。 ② 将示波器连接在TP800上（B-Y)。 测量范围：20mV/段(交流） 扫频时间：20微秒/段（使用10：1的探针） ③ 调节副色调数据，按图1-1所示，将波形调到规定的位置。 TP800：(KY)引脚6	 图1-1
1-2	* 调节副色调 I²C总线控制 (DVD信号)	① 设定副色调 调整状态（自动截止亮度信号），于DVD彩条接收信号。 ② 将示波器连接在TP800上(B-Y)。 测量范围：20mV/段(交流） 扫频时间：20微秒/段（使用10：1的探针） ③ 调节副色调数据，按图1-1所示，将波形调到规定的位置。 ④ 解除调整状态。	 图1-1

SECAM CHROMA ADJUSTMENT

NO.	Adjustment part	Adjusting procedure and conditions	Waveform and others
1	BELL FILTER fo I²C bus adjustment	① Receive Oi-5CH(SECAM colour bar). ② Select the bell filter fo adjustment mode. ③ Connect the oscilloscope to 21pin of IC900. Range : 10mV/Div. (AC) Sweep time: 20µsec/Div. (10:1 probe is used.) ④ Vary the bell filter data to align the waveform to be the nearest to that in Fig. 1-1(b). (Arrange the level to gain the whole balance.)	 **Fig. 1-1(a)**  **Fig. 1-1(b)**
2	SECAM black level R-Y/B-Y I²C bus adjustment	① Receive Oi-5CH(SECAN colour bar). ② Select SECAM black level adjustment R-Y mode. ③ Connect the oscilloscope to 11pin of IC900 (R-Y OUT, TP902). Range: 10mV/Div. Sweep time: 20µsec/Div. (10:1 probe is used.) ④ Vary R-Y data to minimize the offset between the non-signal line and signal line as shown in Fig. 2-1(b). ⑤ Select SECAM black label adjustment B-Y mode. ⑥ Reconnect the oscilloscope to 10pin of IC900 (B-Y OUT, TP901). The conditions are the same as in Item ③. ⑦ Vary B-Y data to minimize the offset between the non-signal line and signal line as shown in Fig. 2-2(b).	 **Fig. 2-1(a)**  **Fig. 2-1(b)**  **Fig. 2-2(a)**  **Fig. 2-2(b)**

SECAM制式色度信号的调整

编号	调整处	调整步骤和条件	波形以及其它
1	调节贝尔滤波器f0 I²C总线控制	① 接收Oi-5频道(SECAM制式彩条)信号。 ② 设定贝尔滤波器 f0调整状态。 ③ 将示波器连接在主IC900的销(21)。 测量范围：10mV/段(交流） 扫频时间：20微秒/段（使用10：1的探针） ④ 调节贝尔滤波器数据，按图1-1(b)所示，将波形调到近似于规定的位置。 （调节信号电平，以获得整个波形的平衡。）	 图1-1(a)  图1-1(b)
2	调节SECAM制式黑色信号电平的红色亮度/蓝色亮度 I²C总线控制	① 接收Oi-5频道(SECAM制式彩条)信号。 ② 调节SECAM制式黑色信号电平，设定 "R-Y" 状态。 ③ 将示波器连接在主IC900的销(11)。(R-Y OUT, TP902) 测量范围：10mV/段(交流） 扫频时间：20微秒/段（使用10：1的探针） ④ 调节红色亮度数据，（如图2-1所示(b)）使无信号线条和信号线条之间的误差值调到最小位置。 ⑤ 调节SECAM制式黑色信号电平，设定 "B-Y" 状态。 ⑥ 重新将示波器连接在主IC900的销(10)。(B-Y OUT, TP901) 按第3项相同的条件进行操作。 ⑦ 调节蓝色亮度数据，（如图2-2所示(b)）使无信号线条和信号线条之间的误差值调到最小位置。	 图2-1(a)  图2-1 (b)  图2-2(a)  图2-2(b)

SOUND LEVEL ADJUSTMENT

NO.	Adjustment part	Adjusting procedure and conditions	Waveform and others
1	SUB VOL (Bus adjustment)	① Receive E-12ch (PAL colour bar). Signal content: 400Hz 100% Mod. ② Connect the probe of the meter (*) to (SI) connector. ③ Select SUB-VOL in the service mode. ④ Adjust the SUB-VOL data to make the meter indicate 10.8Vrms (at L-ch). Adjustment value : 11.2 ± 0.3Vrms – 0.05Vrms	Note: * SPATIALIZER OFF * S-Normal state * S-VOL Max * S-BOOSTER OFF * : Use the multimeter or similar which sufficiently attenuates the high-band frequency (bigger than 100kHz).
2	Noise mute check	① Receive E-12CH (PAL colour bar). ② Maximize the sound volume to verify that the sound is output from the speaker. Then, set the non-signal state. ③ At this time, verify that the audio mute operates. ④ After checking the operation, set the sound volume to be the smallest.	

SIF (NICAM/IGR) ADJUSTMENT

NO.	Adjustment part	Adjusting procedure and conditions	Waveform and others
1	VCO COIL T2300	① Receive E-69CH (PAL colour bar). (Set the receiving frequency at AFT OFF 855.25 MHz.) ② Connect the digital voltmeter to TP202 (in the main unit). ③ Verify that it is turned counterclockwise to 0V and clockwise to 5V, and adjust T2300 to make the DC voltage of TP202 become 2.5 ± 0.1V in the range. * Single-unit adjustment Vcc 5V ± 0.1V IF input frequency 38.9MHz ± 10kHz Control it under these conditions. Adjust T2300 to make the DC voltage of TP2300(in the NICAM unit) become 2.5 ± 0.1V. After single-unit adjustment, check the practical setup. Align the receiving frequency to the select channel frequency. (AFT OFF) The checked voltage must be 2.5 V ± 1.0V. (Take care that ±1.0 is considered for the Vcc difference between the single unit and unit, Fo difference and so on, but is not the adjustment precision.)	

声音电平的调整

编号	调整处	调整步骤和条件	波形以及其它
1	副声音 （总线控制）	① 接收E-12频道(PAL制式彩条)信号。 信号内容：400Hz 100％调制 ② 将测定器（注）的探针连接在SI连接插头上。 ③ 在保养调整状态上选择 "SUB VOL"。 ④ 调节副声音数据，使测定器规定值达到10.8Vrms（左声道）。 调整值：11.2 ± 0.3Vrms – 0.05Vrms	注意： * SPATIALIZER 关 * S-标准状态 * S-VOL 最大 * S-BOOSTER 关 *：请使用对高频信号（大于100kHz）有充够衰减作用的万用表或相应的仪表。
2	确认无噪声	① 接收E-12频道(PAL制式彩条)信号。 ② 将音量旋至最大，检查是否从扬声器发出声音。然后，再设定为无信号状态。 ③ 此时，应确认声音静噪功能是否动作。 ④ 确认启动后，再将音量设定在最小位置。	

SIF (NICAM/IGR)调整

编号	调整处	调整步骤和条件	波形以及其它
1	VCO COIL： T2300	① 接收E-69频道(PAL制式彩条)信号。 (设定AFT OFF 855.25MHz接收频率信号) ② 将数字电压表连接在TP202(主装置内)上。 ③ 调整T2300。先确认向左旋转为0V，向右旋转为5V后，再将其之间的TP202的直流电压调节到2.5 ± 0.1V。 <调整装置部件时> Vcc 5V ± 0.1V IF输入频率控制在 38.9MHz ± 10kHz 在此条件下进行控制 调节T2300，使TP2300(NICAM装置内)直流电压达到2.5 ± 0.1V的规定值。 调整装置部件后确认安装状况 先在选台频率上选择接收频率(AFT OFF)，然后确认电压是否为2.5V ± 1.0V。 （ ± 1.0是考虑到部件和装置之间Vcc的误差、Fo的误差等，并非调整时的精度，请注意。）	

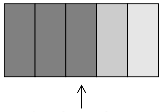
CUT OFF, BKGD ADJUSTMENT METHOD

NO.	Adjustment part	Adjusting procedure and conditions	Waveform and others
1	CRT CUT OFF Service mode I^{2}C bus data adjustment	① Receive E-5CH (Monoscope pattern). ② Select P-NORM with the remote controller. ③ Turn on the service SW, and select the CUT OFF BKGD mode. ④ Select the screen VR 0/10. ⑤ Press "-/--" key of the remote controller to select the lateral in-line mode. ⑨ Turn the screen VR clockwise, and adjust the first lighting lateral in-line raster to slightly light. ⑩ Adjust the CUT OFF data of two other colours, and coarsely adjust the lateral in-line to become white. (Note 1) ⑪ Turn the screen VR in the opposite direction to the point where the lateral in-line raster goes out. Note 1: Apply the adjustment after aging with the beam current 1,500 ± 50µA or more for 30 minutes or more. ⑫ Press "-/--" key of the remote controller to select the normal mode.	On the monocolour screen of white or green
2-1	White balance background I^{2}C bus adjustment (RF Signal)	① E-5CH (Monoscope pattern) is received. ② Select P-NOM with the remote controller. ③ Connect the beam ammeter between TP1601 and TP1602. ④ Coarsely adjust the beam current to approx. 1.7 mA with R1633 (sub-contrast VR). ⑤ Receive the window pattern with AV input. (PAL burst is generated with the signal generator.) ⑥ With the data of G-drive and B-drive, adjust the colour temperature 12,300K of the white peak to white. ⑦ Adjust the right dark area of the window to 12,300K with R-cut off, G-cut off and B-cut off. ⑧ Readjust the colour temperature at the white peak. ⑨ Check 12,300K at the low white. Note 1 : Apply this adjustment after aging with the beam current 1,500 ± 50µA or more for 30 minutes or more. (On the white or green monocolour screen)	Note 1 : R CUT OFF UP "1" KEY DOWN "4" KEY G CUT OFF UP "2" KEY DOWN "5" KEY B CUT OFF UP "3" KEY DOWN "6" KEY Data up/down is possible with the above comparison. * 12300 °K X : 0.272 Y : 0.275 (With Minolta colour thermometer CA-100) Note 1 : G-DRIVE UP "7" KEY DOWN "↩" KEY B-DRIVE UP "8" KEY DOWN "0" KEY Data up/down is possible with the above comparison. * The colour temperature is based on the shipment initial setting table.
2-2	* White balance background I^{2}C BUS adjustment (DVD signal)	① The window pattern is received with DVD signal (component signal). ② Apply the adjustment in the same manner as 2-1⑤ and subsequence above. (12,300K) (G-DRIVE, B-DRIVE, R-CUTOFF, G-CUTOFF, B-CUTOFF) Apply the adjustment after the end of 2-1.	Note 2 : Use the window pattern of the signal generator for adjustment. (PAL and colour burst are present.) Note 3 : Signal generator of 2-1, 2-2 use "SX-1006"

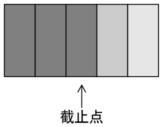
截止BKGD的调整

编号	调整处	调整步骤和条件	波形以及其它
1	截止阴极射线管(CRT)调节保养调整状态时的I^{2}C总线控制数据	① 接收E-5频道(单象管测试图)信号。 ② 用遥控器设定为P-NORM状态。 ③ 接通保养调整开关，选择 "CUT OFF BKGD" 状态。 ④ 设定屏蔽VR 0/10。 ⑤ 按遥控器的 "-/--" 键，设定横一状态。 ⑨ 顺时针方向旋转屏蔽VR，使最初发色的横一光栅调到微光线。 ⑩ 调节其它两色的截止数据，粗调横一光栅，使其呈白色信号。 注1) ⑪ 逆时针方向旋转屏蔽VR，使横一光栅呈消失点状态。 注1： 先用1,500 ± 50 μ A以上电子束电流预热30分钟以上后再进行该调整。 ⑫ 按遥控器的 "-/--" 键，设定标准状态。	用白色信号或绿色信号的画面
2-1	调节白色平衡信号的背景I^{2}C总线控制(RF信号)	① 接收E-5频道(单象管测试图)信号。 ② 用遥控器设定为P-NOM状态。 ③ 在TP1601和TP1602之间连接电子束电流计。 ④ 粗调R1633(副对比度VR)，使电子束电流达到约1.7mA。 ⑤ 输入AV信号，接收窗形图案。(通过信号发生器调节PAL制式信号(附带脉冲)窗形图案）。 ⑥ 调节绿色激励、蓝色激励的数据，使白色峰值的色温为12,300K的白色信号。 ⑦ 调节红色截止、绿色截止、蓝色截止的信号，使窗形右侧的暗部为12,300K。 ⑧ 重调白色峰值的色温。 ⑨ 确认低白色信号为12,300K。 注1： 先用1,500 ± 50 μ A以上电子束电流预热30分钟以上后再进行该调整。 （用白色信号或绿色信号的画面）	注1： 红色截止信号 (上移)按 "1" 键 (下移)按 "4" 键 绿色截止信号 (上移)按 "2" 键 (下移)按 "5" 键 蓝色截止信号 (上移)按 "3" 键 (下移)按 "6" 键 按以上的对比来调节数据的上移/下移。 ※12300° K X：0.272 Y：0.275 （使用美能达色温计CA-100） 注 1 ： 绿色激励信号 (上移)按 "7" 键 (下移)按 "↩" 键 蓝色激励信号 (上移)按 "8" 键 (下移)按 "0" 键 按以上的对比来调节数据的上移/下移。 * 有关彩色温度是根据出厂初始设定表进行设定的。
2-2	调节白色平衡信号的背景I^{2}C总线控制(DVD信号)	① 通过DVD信号（系统信号）来接收窗形图案信号。 ② 按照上述2-1的⑤以后项目进行调节。（12,300K）（绿色激励、红色激励、红色截止、绿色截止、蓝色截止） 2-1项结束后进行该调整。	注2： 使用调整用信号发生器的窗形图案信号。 （现有PAL制式和彩色同步脉冲信号） 注 3 ： 2-1、2-2的信号发生器使用 "SX-1006"

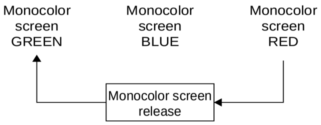
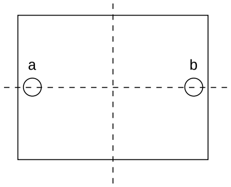
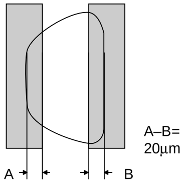
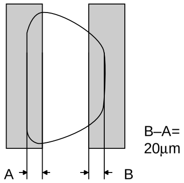
SUB CONT SUB-BRIGHT ADJUSTMENT

NO.	Adjustment part	Adjusting procedure and conditions	Waveform and others
3	MAX BEEM R1633	① Receive E-5CH (Monoscope pattern) with standard mode. ② Make the image normal with the remote controller. ③ Connect the beam ammeter between TP1601 and TP1602. Ammeter full scale 3mA range TP1602 is connected at the - side of the ammeter. TP1601 is connected at the + side of the ammeter. ④ Adjust the beam current to 1.7mA ± 50µA with R1633 (sub-contrast VR). Note : Apply the adjustment after aging with the beam current 1,500 ± 50µA or more for 30 minutes or more. (On the white or green monocolour screen)	
4-1	SUB-CONTRAST I²C bus adjustment (RF signal)	① Receive the window pattern with AV input. ② Make the image normal with the remote controller. ③ Select the SUB-CONTRAST adjustment mode with the remote controller, and adjust 50% white to 110 ± 3cd.	Note 1 : Use "Y" of Minolta colour analyzer CA-100 in adjustment 4-1, 4-2, 5-1, 5-2.
4-2	SUB-CONTRAST I²C bus adjustment (DVD signal)	① Select the DVD mode. ② Receive the signal of the DVD signal generator. (Component signal) (Window pattern) ③ Make the image normal with the remote controller. ④ Select the SUB-CONTRAST adjustment mode (DVD) with the remote controller, and adjust 50% white to 110 ± 3cd.	Note 2 : Window pattern of signal generator is same ad JA-12CH. Note 3 : Use the signal generator "SX-1006" for SUB-CONT., SUB-BRIGHT adjustment.
5-1	SUB-BRIGHT I²C bus adjustment (RF signal)	① Receive the window pattern with AV input. ② Make the image normal with the remote controller. ③ Select the sub-bright adjustment mode with the remote controller, and adjust the right dark white area of the window pattern to 2.7cd ± 0.3cd.	* When E-2CH (Crosshatch pattern) or equivalent signal is received. ① Make the image normal with the remote controller. ② Adjust the 3rd (1 thru 5 from the left) black of the window pattern to sink. 
5-2	SUB-BRIGHT I²C bus adjustment (DVD signal)	① Select the DVD mode. ② Receive the signal of the DVD signal generator. (Component signal) (Window pattern) ③ Make the image normal with the remote controller. ④ Select the sub-bright adjustment mode (DVD), and adjust the right dark white area of the window pattern to 2.7cd ± 0.3cd of the window pattern.	

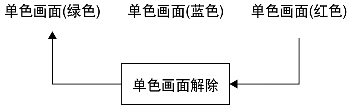
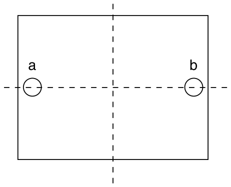
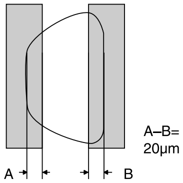
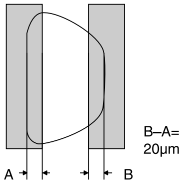
副对比度和度亮度的调整

编号	调整处	调整步骤和条件	波形以及其它
3	MAX BEEM： R1633	① 接收E-5频道(单象管测试图)信号标准状态内。 ② 用遥控器设定视频标准状态。 ③ 在TP1601和TP1602之间连接电子束电流计。 电流计全标度：3mA波段 TP1602为电流计的－侧 TP1601为电流计的＋侧 ④ 调节R1633(副对比度VR)，使电子束电流达到1.7mA ± 50 μ A。 注2： 先用1,500 ± 50 μ A以上电子束电流预热30分钟以上后再进行该调整。 （用白色信号或绿色信号的画面）	
4-1	调节副对比度的I²C总线控制(RF信号)	① 输入AV并接收窗形图案信号。 ② 用遥控器设定视频标准状态。 ③ 用遥控器设定副对比度调整状态，使50％白色信号调节到110 ± 3cd。	注1： 在4-1、4-2、5-1、5-2的调节中，使用美能达色温计CA-100的"Y"。
4-2	调节副对比度的I²C总线控制(DVD信号)	① 设定DVD调整状态。 ② 接收DVD信号发生器的信号。(系统信号) （窗形图案信号） ③ 用遥控器设定视频标准状态。 ④ 用遥控器设定副对比度调整状态(DVD信号)，使50％白色信号调节到110 ± 3cd。	注2： 信号发生器的窗形图案与JA-12频道相同。 注3： 进行SUB-CONT(副对比)、SUB-BRIGHT(副亮度)调整时请使用信号发生器"SX-1006"。
5-1	调节副亮度的I²C总线控制(RF信号)	① 输入AV并接收窗形图案信号。 ② 用遥控器设定视频标准状态。 ③ 用遥控器设定副对比度调整状态，使窗形图案的右侧暗白部分调节到2.7cd ± 0.3cd。	※接收E-2频道（棋盘状图案）同等信号。 ① 用遥控器设定视频标准状态。 ② 使窗形图案的第3个(从左起1→5)黑色部分调节为沉点。 
5-2	调节副亮度的I²C总线控制(DVD信号)	① 设定DVD调整状态。 ② 接收DVD信号发生器的信号。(系统信号) （窗形图案信号） ③ 用遥控器设定视频标准状态。 ④ 用遥控器设定副亮度调整状态，使窗形图案的右侧暗白部分调节到2.7cd ± 0.3cd。	

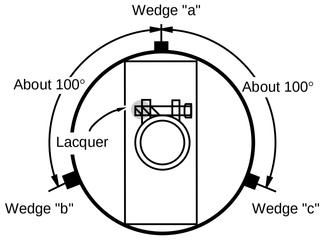
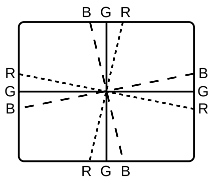
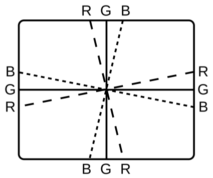
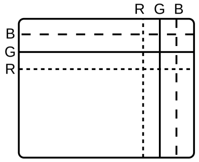
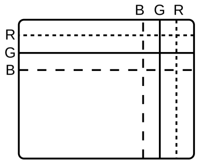
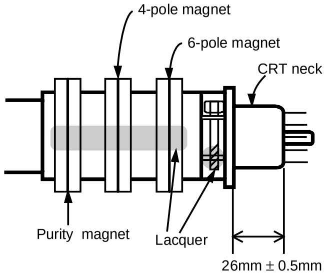
PURITY ADJUSTMENT

NO.	Adjustment part	Adjusting procedure and conditions	Waveform and others
1	Purity adjustment	① Select the green monocolour screen with the remote controller, and set the beam current of 1.5mA with the contrast control. ② Sufficiently degauss CRT with the degusing coil. Note : For the adjustable magnetic field, refer to the job instruction sheet. The adjustable magnetic field is as shown page 9. ③ The purity magnet must be previously set at the 0 magnetic field, and the convergence must be adjusted to be rough. With P-MG, adjust it to the center - rank A. ④ Observing the points a and b of Fig. 1-1 with the microscope, move DY fore and aft to set the landing at the point (Rank A) of 10µm. ④ If the a/b balance is poor, compensate it to the center "Rank AB". ⑤ Align it to zero, keeping the raster rotation in the east direction. ⑥ Tighten the deflection coil fastening screws. Tightening torque: 108N ± 20N (11kgf ± 2kgf) ⑦ Checking the CRT corner area, bond the magnetic sheet to set the landing at Rank A for compensation. Note : Apply the adjustment after aging with the beam current 1,500 ± 50µA or more for 30 minutes or more. Note : Select the service mode, and press the monocolour key of R/C for process, and the monocolour screen (green) will be selected. Note : After adjusting the convergence, perform rough adjustment so that a/b gets to 10µm. * Every push of the monocolour key changes the screen as follows.  Monocolor screen GREEN Monocolor screen BLUE Monocolor screen RED Monocolor screen release	 **Fig. 1-1**  **Fig. 1-2 Rank A' CRT RIGHT**  **Fig. 1-3 Rank A' CRT LEFT** Even with TEXT key or "R.G.Cy" key, it can be directly switched to each monocolour screen. With "Y" key, it can be switched WHITE screen.
2	Peripheral purity adjustment	① After YPB adjustment of DY, receive the cross-hatch, and coarsely adjust Yh and Yv by swinging DY. (Fix it with the wedge within 30 seconds.) ② In the monocolour screen (green), set the beam current at 1,400µA. ③ In Bh=0 and Bv= "Refer to the factory setting and geomagnetic adjustment by model (ref.)", verify that the landing in the corner area is practically at the rank A. If it is deviated, bond the Pu compensation Mg for adjustment.	Note : Set to natural magnetic field.

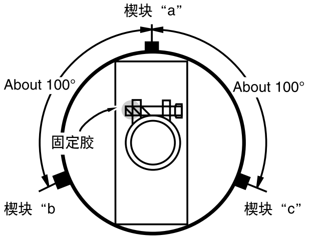
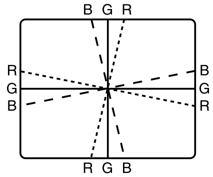
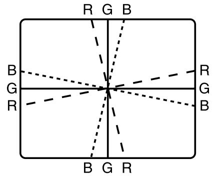
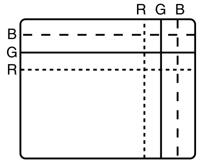
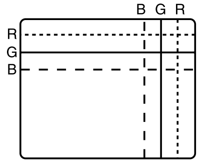
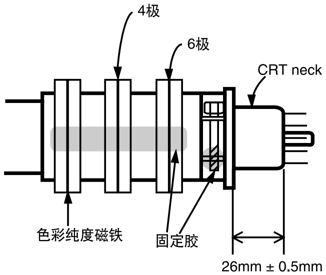
色彩纯度的调整

编号	调整处	调整步骤和条件	波形以及其它
1	调节色彩纯度	① 用遥控器显示绿色画面，然后，用对比度控制设定电子束电流为1.5mA。 ② 用消磁线圈将CRT进行充分消磁。 注意：有关调整磁场，请参照生产连络单。有关调整磁场如第9页所示。 ③ 事先将色彩纯度调节磁铁调整为0，并将聚焦进行粗调。用P-MG调节为中间的Ａ级。 ④ 转动DY，用放大镜观察图1-1位置的"a"和"b"，使着屏点(A级)为10μm。 ④ 如果"a"和"b"位置不平衡时，将画面补正到中间"AB级"。 ⑤ 调节光栅转向朝东为0。 ⑥ 拧紧偏转线圈的紧固螺丝。紧固扭矩：108N±20N(11kgf±2kgf) ⑦ 确认CRT角部，粘贴磁铁片，使着屏点达到A级。 注意： 先用1,500±50μA以上电子束电流预热30分钟以上后再进行该调整。 注意： 进入保养调整状态后，按下工序用R/C的单色键，就会变为单色(绿色)画面。 注意： 调整聚焦之后，进行大致的调节，使a/b达到10μm。 ※每按下一次单色键，即如下顺序变化：  单色画面(绿色) 单色画面(蓝色) 单色画面(红色) 单色画面解除	 图1-1  图1-2 A'级阴极射线管(CRT)右侧  图1-3 A'级阴极射线管(CRT)右侧 即使是测试键、"红/绿/灰"键，也可以直接转换为各单色画面。 用"Y"键可转换白色画面。
2	调节周边彩色纯度	① 调节DY的YPB后，接收棋盘状图案信号，以DY转向粗调Yh和Yv。(在30秒钟以内用楔块固定之) ② 在单色画面(绿色)上设定电子束电流为1,400μA。 ③ 以Bh=0、Bv="参看型号（参考）的出厂设定值和地磁调节"，确认角部的着屏点是否符合Ａ级，如果不符合规定要求时，用粘贴Pu和补正Mg来进行调节。	注：设定至自然磁场

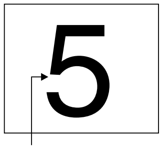
CONVERGENCE ADJUSTING METHOD

NO.	Adjustment part	Adjusting procedure and conditions	Waveform and others
	Convergence adjustment (Apply this after purity adjustment.)	① Receive E-2CH (Crosshatch pattern). ② With the remote controller, make it normal. Apply this after focus adjustment. (Static convergence adjustment) ① Overlap blue and red with the open-/closing angle and rotation of the 4-pole magnet. ② Overlap green on blue and red with the open-/closing angle and rotation of the 6-pole magnet. (Dynamic convergence adjustment) ① Adjust the convergence of the peripheral area of the screen in the following procedure. a) Put the wedge in Fig.-1: “a” to swing the deflecting coil upward for alignment. b) Put the wedge in Fig.-2: “b” and “c” to swing the deflecting coil downward for alignment. c) Deeply put the wedge in Fig.-3: “c” to swing the deflecting coil rightward for alignment. d) Deeply put the wedge in Fig.-4: “d” to swing the deflecting coil rightward for alignment. ② Bond each wedge on CRT, and bond the glass tape on it. ③ Coat the lacquer paint on the DY fastening screws, the magnetic unit (purity 4-pole and 6-pole) and the magnetic unit fastening screws.  Wedge "a" About 100° About 100° Lacquer Wedge "b" Wedge "c"	 B G R R G B B G R R G B Fig.-1  R G B B G R R G B B G R Fig.-2  Fig.-3  Fig.-4  4-pole magnet 6-pole magnet CRT neck Purity magnet Lacquer 26mm ± 0.5mm

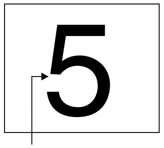
聚焦的调整

编号	调整处	调整步骤和条件	波形以及其它
	调节聚焦(进行该调整之前，应先进行色彩纯度的调整。)	① 接收E-2频道(棋盘状图案)信号。 ② 用遥控器设定标准状态。 在焦距调整之后进行该设定。 （静止聚焦的调整） ① 调节4极磁铁的开闭角度以及旋转，使蓝色和红色重叠。 ② 调节6极磁铁的开闭角度以及旋转，使绿色与蓝色和红色重叠。 （动态聚焦的调整） ① 按下述要领调节画面周边部的聚焦。 a) 图-1：将楔块插入“a”里，并向上摆动偏转线圈来进行调节。 b) 图-2：将楔块插入“b”和“c”里，并向下摆动偏转线圈来进行调节。 c) 图-3：将楔块“c”向深处插入，并向右摆动偏转线圈来进行调节。 d) 图-4：将楔块“d”向深处插入，并向左摆动偏转线圈来进行调节。 ② 将CRT粘贴在各楔块上，并在其上面粘贴玻璃胶带。 ③ 在DY固定螺丝、磁铁装置(色彩纯度磁铁4极、6极)、磁铁装置固定螺丝上涂上固定胶。  楔块“a” About 100° About 100° 固定胶 楔块“b 楔块“c”	 B G R R G B B G R R G B 图-1  R G B B G R R G B B G R 图-2  图-3  图-4  4极 6极 CRT neck 色彩纯度磁铁 固定胶 26mm ± 0.5mm

HORIZONTAL/VERTICAL CIRCUIT ADJUSTMENT

NO.	Adjustment part	Adjusting procedure and conditions	Waveform and others
1	V-AMPLITUDE 50 V-LINEARITY 50Hz	Adjust the overscan to 8.5% ± 0.5%. (E-5) Adjust the linearity to the best.	The receiving channel in ( ) are the following signals. (E-2): Crosshatch (50Hz) (E-5): Monoscope (50Hz)
	V-SCORRECTION 50Hz	Already preset (**). (Adjust this unless the linearity is achieved.)	
	V-RHASE(50) (V-CENTER)	Align the center of the screen to the geometric center of CRT. (E-5)	
	H-RHASE(50) (H-CENTER)	Align the center of the screen to the geometric center of CRT. (E-5)	
	H-SIZE	Adjust the overscan to 8.5% ± 0.5%. (E-5)	
	E/W-PARABOLA (SIDE-PIN)	Adjust the 1st vertical line from the left and right ends of the crosshatch to be straight. (E-2)	
	V-BIAS	Already preset.	
	V-∫CORRECTION	Already preset.	
	EW-CORNER (SUB-SIDEPIN)	Adjust the end of the line of the crosshatch to be straight.	
	TRAPEZIUM	Already preset. (Adjust if the quality is specially poor.)	
	V-COMPENSATION	Already preset. (Adjust if the quality is specially poor.)	
	H-COMPENSATION	Already preset. (Adjust if the quality is specially poor.)	
	OTHER	On the items of V-AMPLITUDE60, V-LINEARITY60, V-SCORRECTION60, V-RHASE60, H-RHASE60 and H-SIZE60, the compensation data is automatically input if the 50Hz mode adjustment is done.	However, if it is largely deviated when it is checked in the 60Hz mode, readjust it in the 60Hz mode.
2	Focus adjustment	① Receive E-5CH (crosshatch pattern). ② With the remote controller, make the image normal. ③ Adjust the focus VR to make the vertical line of "5" in "E-5" display upper left part of screen as fine as possible.	 This vertical line make as fine as possible.

水平、垂直同步电路的调整

编号	调整处	调整步骤和条件	波形以及其它
1	V-AMPLITUDE50 V-LINEARITY50Hz	调节V-AMP50，使过扫描调到8.5％。(E-5) 调节V-LINE50，使线性度调到最佳状态。	（ ）内的接收频道为以下信号内容： (E-2)：棋盘状图案信号(50Hz) (E-5)：单象管测试图信号(50Hz)
	V-S CORRECTION50Hz	预设完毕(**)(无法调节线性度时进行调整)	
	V-RHASE(50) (V-CENTER)	调节V-CENT50，使画面中心和CRT的几何中心对齐。(E-5)	
	H-RHASE50 (H-CENTER)	调节H-CENT50，使画面中心和CRT的几何中心对齐。(E-5)	
	H-SIZE	调节H-SIZE50，使过扫描调到8.5％。(E-5)	
	E/W-PARABOLA (SIDE-PIN)	调节E/W-PAR，使棋盘状图案的左右端起第1条竖线垂直。(E-2)	
	V-BIAS	预设完毕。	
	V-∫CORRECTION	预设完毕。	
	EW-CORNER (SUB-SIDE PIN)	调节EW-COR，使棋盘状图案的线条边缘呈垂直状态。	
	TRAPEZIUM	预设完毕(无法调节线性度时进行调整)	
	V-COMPENSATION	预设完毕(无法调节线性度时进行调整)	
	H-COMPENSATION	预设完毕(无法调节线性度时进行调整)	
	其它	V-AMPLITUDE60、V-LINEARITY60、V-SCORRECTION60、V-RHASE60、H-RHASE60、H-SIZE60的项目，只要用50Hz调整状态进行调节，就可自动输入补正数据。	但是，如果确认60Hz调整状态时，发现误差大的情况下，应在60Hz调整状态重新进行调节。
2	调节聚焦	① 接收E-5频道(棋盘状图案)信号。 ② 用遥控器设定标准状态。 ③ 调整焦距可变电阻（VR）以便显示在荧光屏左上侧“E-5”显示处的“5”字的垂直线尽可能地清晰。	 将该垂直线尽可能地调整得清晰。

FUNCTION OPERATION CHECK (1) (VIDEO AND AUDIO)

NO.	Check item	Adjusting procedure and conditions	Waveform and others
1	CONTRAST	① Receive E-5CH. ② In P-mode, select CONTRAST. ③ The contrast must be varied with UP/DOWN.	
2	COLOUR	① Receive J-13CH. ② In P-mode, select COLOUR. ③ The colouring must be varied with UP/DOWN. (Any colour must not remain in MIN.)	
3	BRIGHTNESS	① Receive E-5CH. ② In P-mode, select BRIGHT. ③ The black level must be varied with UP/DOWN.	
4	TINT	① Receive J-13CH. (NTSC colour bar) ② In P-mode, select TINT. ③ With UP/DOWN, the tint must be varied toward green for UP, and toward red for DOWN.	
5	NORMAL	① If NORMAL key is pressed when the mode is displayed in P/S-mode, the displayed content alone must be set to be normal.	
6	SHARPNESS	① Receive E-5CH. ② In P-mode, select SHARPNESS. ③ The screen quality must be varied with UP/DOWN.	
7	CH sign display colour	① All CH (0 thru 99) sign must be displayed in green.	
8	TREBLE	① Receive E-5CH. ② In S-mode, select TREBLE. ③ The high band must be varied with UP/DOWN.	
9	BASS	① Receive E-5CH. ② In S-mode, select BASS. ③ The low band must be varied with UP/DOWN.	
10	BALANCE	① Receive E-5CH. ② In S-mode, select BALANCE. ③ Verify that the left/right balance must be varied with UP/DOWN.	

检查电路功能(1)(图象和声音)

编号	检查项目	调整步骤和条件	波形以及其它
1	对比度	① 接收E-5频道信号。 ② 通过图象菜单，选择对比度。 ③ 按下UP/DOWN键，使对比度发生相应的变化。	
2	彩色	① 接收J-13频道信号。 ② 通过图象菜单，选择彩色。 ③ 按下UP/DOWN键，使彩色发生相应的变化。 (于最小位置时应处于无色状态)	
3	亮度	① 接收E-5频道信号。 ② 通过图象菜单，选择亮度。 ③ 按下UP/DOWN键，使黑色水平发生相应的变化。	
4	色调	① 接收J-13频道信号。(NTSC彩条) ② 通过图象菜单，选择色调。 ③ 按下UP键，使色调为绿色；按下DOWN键，使色调为红色。	
5	标准图象	① 通过P/S-MODE显示图象标准状态时，按下NORMAL.(标准)键，使仅限显示中的内容为标准状态的设定。（在标准状态下）	
6	鲜明度	① 接收E-5频道信号。 ② 通过图象状态，选择鲜明度。 ③ 按下UP/DOWN键，使画质发生相应的变化。	
7	频道代号表示色	① 确认全频道(0～99)代号的表示色为绿色。	※如果电视机处于出厂设定值时。
8	高音	① 接收E-5频道信号。 ② 通过声音菜单，选择高音。 ③ 按下UP/DOWN键，使高音表示发生相应的变化。	
9	低音	① 接收E-5频道信号。 ② 通过声音菜单，选择低音。 ③ 按下UP/DOWN键，使低音表示发生相应的变化。	
10	平衡	① 接收E-5频道信号。 ② 通过声音菜单，选择平衡。 ③ 按下UP/DOWN键，使左右平衡发生相应的变化。	

FUNCTION OPERATION CHECK (2) (VIDEO AND AUDIO)

NO.	Check item	Adjusting procedure and conditions	Waveform and others
11	COLOUR SYSTEM	① When E-12CH PAL COLOUR BAR is received and another mode except PAL is selected in the colour system, Verify that the colour must not be properly operated. ② When E-10CH SECAM COLOUR BAR is received and another mode except SECAM is selected in the colour system, Verify that the colour must not be properly operated. ③ When E-37CH NTSC 4.43 COLOUR BAR is received and another mode except N4.43 is selected in the colour system, Verify that the colour must not be properly operated.with UP/DOWN. ④ When JA-8CH NTSC 3.58 COLOUR BAR is received and another mode except N3.58 is selected in the colour system, Verify that the colour must not be properly operated.	Note: Take care that the colour and sound must not be properly operated with the special signal E-4, E-37, J-38 and E-64 in the auto mode.(Check it in the forcible mode.)
12	SOUND SYSTEM	① When OI-9CH PAL COLOUR BAR is received and M, B/G, I is selected in the sound system, Verify that the sound must not be properly output. ② When E-23CH monoscope is received and M, B/G, D/K is selected in the sound system, Verify that the sound must not be properly output. ③ When E-12CH colour bar is received and M, I, D/K is selected in the sound system, Verify that the sound must not be properly output. ④ When JA-8CH colour bar is received and B/G, I, D/K is selected in the sound system, Verify that the sound must not be properly output.	
13	SPATIALIZER Key	① Receive E-5CH music broadcast. ② The sound mode must be switched with SPATIALIZER key (R/C) as follows. SPATIALIZER OFF ↓ SPATIALIZER 1 ↓ SPATIALIZER 2 ↓ ③ Verify that the sound from the speaker in the MONO mode is felt to be wide.	R/C key or MENE screen
14	S-BOOSTER	① Receive E-5CH music broadcast. ② Switch S-BOOSTER in S-mode as below. OFF – 1 – 2 – 3	

检查电路功能(2)(图象和声音)

编号	检查项目	调整步骤和条件	波形以及其它
11	彩色制式	① 接收E-12频道的PAL制式彩条信号，并用彩色制式选择PAL制式以外的调整状态，此时，应确认彩色功能不能正常工作。 ② 接收E-10频道的SECAM制式彩条信号，并用彩色制式选择SECAM制式以外的调整状态，此时，应确认彩色功能不能正常工作。 ③ 接收E-37频道的NTSC 4.43制式彩条信号，并用彩色制式选择NTSC 4.43制式以外的调整状态，此时，应确认彩色功能不能正常工作。 ④ 接收JA-8频道的NTSC 3.58制式彩条信号，并用彩色制式选择NTSC 3.58制式以外的调整状态，此时，应确认彩色功能不能正常工作。	注意： 在自动调整状态下，E-4、E-37、J-38、E-64特殊信号的彩色以及不能正常发出声音，请注意。(检查一下强制调整状态)
12	声音制式	① 接收OI-9频道的PAL制式彩条信号，并用声音制式选择M, B/G, I，此时，应确认不能正常发出声音。 ② 接收E-23频道的单象管测试图信号，并用声音制式选择M, B/G, D/K，此时，应确认不能正常发出声音。 ③ 接收E-12频道的彩条信号，并用声音制式选择M, I, D/K，此时，应确认不能正常发出声音。 ④ 接收JA-8频道的彩条信号，并用声音制式选择B/G, I, D/K，此时，应确认不能正常发出声音。	
13	SPATIALIZER键	① 接收E-5频道的播放音乐信号。 ② 按下SPATIALIZER键(R/C)，声音调整状态如下顺序转换。 SPATIALIZER 关 ↓ SPATIALIZER 1 ↓ SPATIALIZER 2 ↓ ③ 在MONO状态下，确认从扬声器中发出的声音有无临场感。	用R/C键或项目显示画面。
14	S-BOOSTER	① 接收E-5频道的播放音乐信号。 ② 在S-MODE状态下选择S-BOOSTER。 OFF-1-2-3	

A/V INPUT/OUTPUT CHECK

NO.	Check item	Adjusting procedure and conditions	Waveform and others
1	Video output check Audio output check	① Receive E-12CH colour bar (colour bar audio 400Hz 100% MOD of 100% white). ② The video output must be within the specified range of 1.0Vp-p ± 3dB at the 75Ω terminator. ③ The audio output must be within the specified range of 1.76Vp-p ± 3dB at the 10kΩ terminator.	
2	Video input check Audio input check S-terminal input check	① The mode must be switched in the cycle of TV → AV1 → AV2 → AV3 → DVD → TV with TV/AV key of R/C, and the image and voice which correspond to each input/output terminals must be properly output. * Here, DVD is applied for the input alone. ② When the connector is inserted into the S-video input terminal on AV1, it must be switched from AV to S-video and must be properly operated. Moreover, check "AV1-S" of OSD. ③ When the connector is inserted into the S-video input terminal on AV3, it must be switched from AV to S-video and must be properly operated. Moreover, check "AV3-S" of OSD.	
3	AV3 automatic discrimination check	① Receive TV with R/C. ② When the signal is input to the video input terminal of AV3, it is automatically switched to AV3. ③ When the signal is input to the S-video input terminal of AV3, it is automatically switched to AV3-S. * Setting: Auto select in the feature — ON	

PROTECTOR OPERATION CHECK

NO.	Check item	Adjusting procedure and conditions	Waveform and others
1	H, V protector	① Receive E-5CH (monoscope pattern). ② Connect the bias box to the cathode side (R1622 side) of D1604. ③ Set the voltage of the bias box at 16V, and verify that the protector does not operate. ④ Set the voltage of the bias box at 24V, and verify that the protector operates.	Reference Approx. 20 V as ordinary
2	Other protectors	◎ Correspondence for short circuit of smoothening electrolysis of +B line and so on To check the operation of the protector and so on, take care for the breakage, deterioration and so on of each element.	

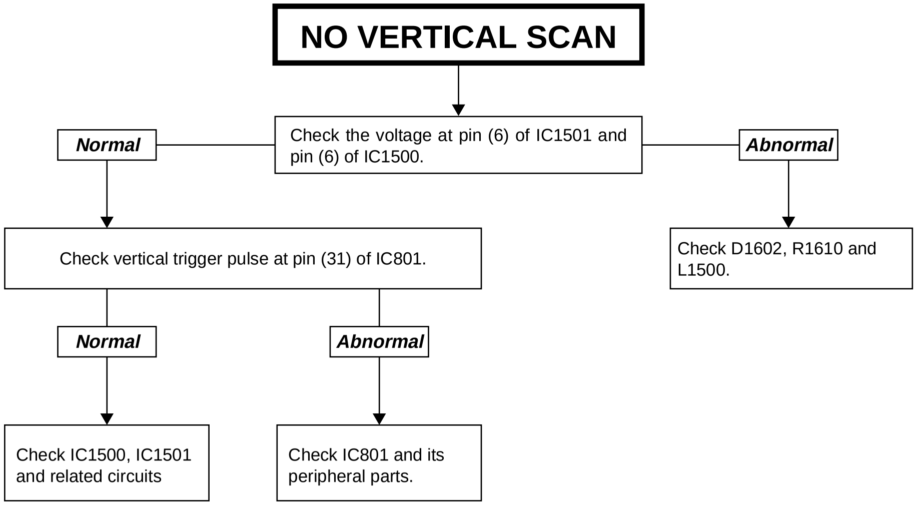
A/V输出、输入的确认

编号	检查项目	调整步骤和条件	波形以及其它
1	检查输出视频 检查输出音频	① 接收E-12频道彩条(100％白色信号彩条声音、400Hz 100％调制)信号。 ② 用75Ω终端，使视频输出达到1.0Vp-p ± 3dB的规定值。 ③ 用10kΩ终端，使音频输出达到1.76Vp-p ± 3dB的规定值。	
2	检查输入视频 检查输入音频 检查输入S-端子	① 按下R/C的TV/AV键，将顺序转换为TV→AV1→AV2→AV3→DVD→TV调整状态，根据各输出、输入端子呼出相应的图象及声音项目。 ※但是，DVD仅限于输入 ② 设定AV1时，在S-视频输入端子插入连接插头时，将AV转换为S-视频，此时，应确认是否正常动作和OSD的“AV1-S”画面。 ③ 设定AV3时，在S-视频输入端子插入连接插头时，将AV转换为S-视频，此时，应确认是否正检查AV3自动识别功能。	
3	常动作和OSD的“AV3-S”画面。	① 通过R/C接收TV信号。 ② 在AV3的视频输入端子上输入信号时，便自动转换为AV3。 ③ 在AV3的S-视频输入端子上输入信号时，便自动转换为AV3-S。 ※设定：在特殊功能内自动选择为开状态。	

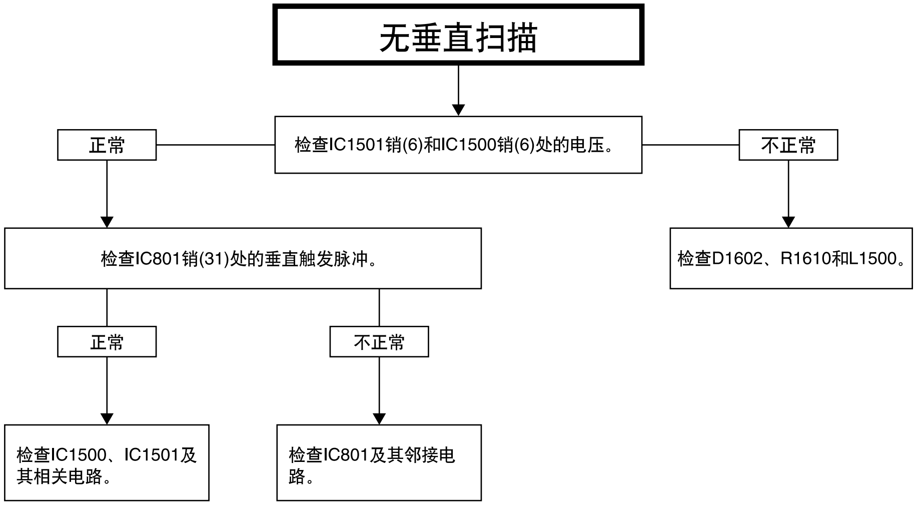
确认保护电路功能

编号	检查项目	调整步骤和条件	波形以及其它
1	H,V保护电路	① 接收E-5频道(单象管测试图)信号。 ② 将偏压器连接在D1604的阴极侧(R1622侧)。 ③ 将偏压器设定为16V，确认保护电路处于不正常状态。 ④ 将偏压器设定为24V，确认保护电路处于正常状态。	参考 通常为约20V
2	其它保护电路	◎ 以＋B线路等平滑用电解的连接对应确认保护电路等的功能时，应注意各部件的损坏和老化情况等。	

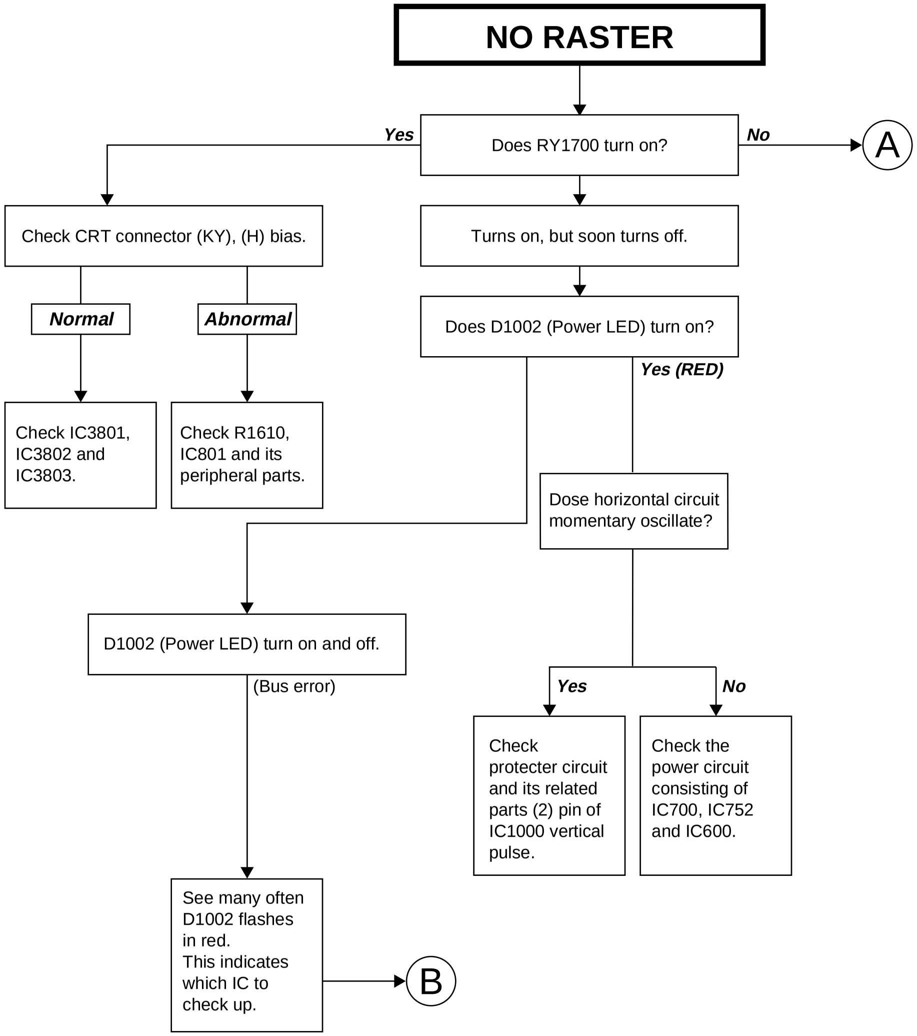
TROUBLE SHOOTING TABLE


NO VERTICAL SCAN
Check the voltage at pin (6) of IC1501 and pin (6) of IC1500.
Normal
Abnormal
Check vertical trigger pulse at pin (31) of IC801.
Check D1602, R1610 and L1500.
Normal
Abnormal
Check IC1500, IC1501 and related circuits
Check IC801 and its peripheral parts.

故障检修流程图

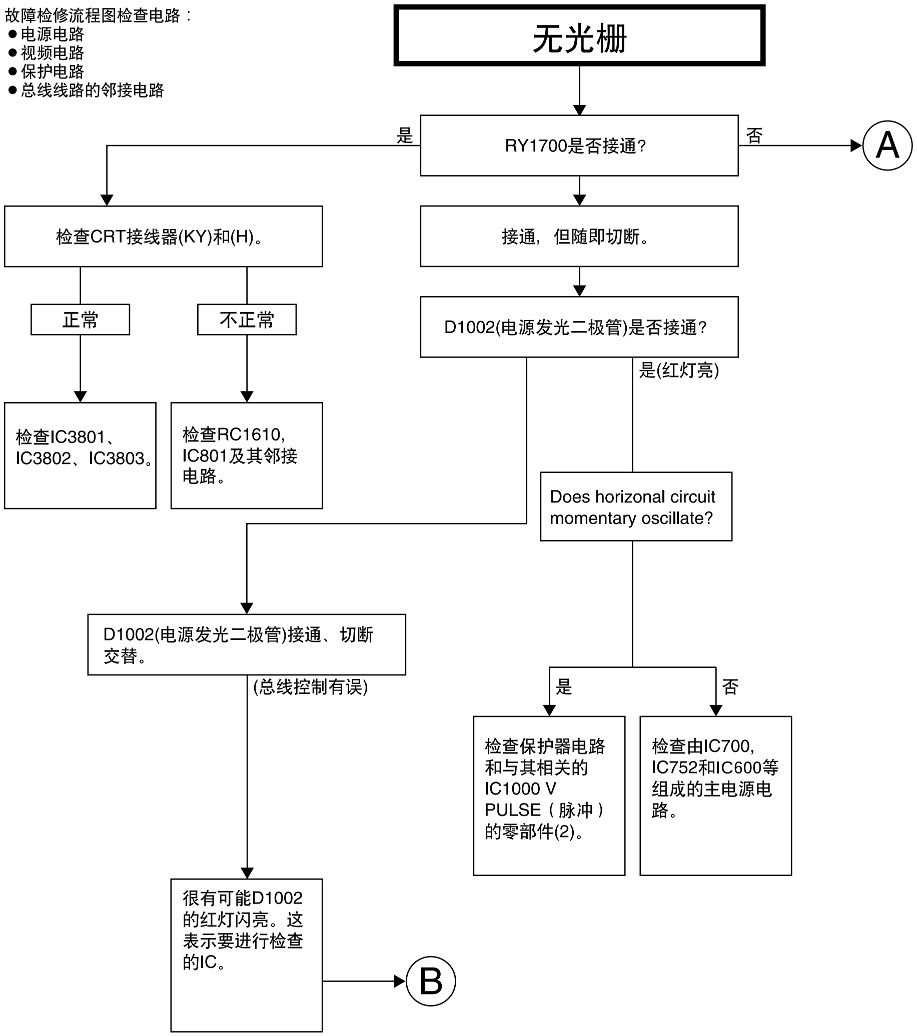

无垂直扫描
检查IC1501销(6)和IC1500销(6)处的电压。
正常
不正常
检查IC801销(31)处的垂直触发脉冲。
检查D1602、R1610和L1500。
正常
不正常
检查IC1500、IC1501及其相关电路。
检查IC801及其邻接电路。

TROUBLE SHOOTING TABLE (Continued)

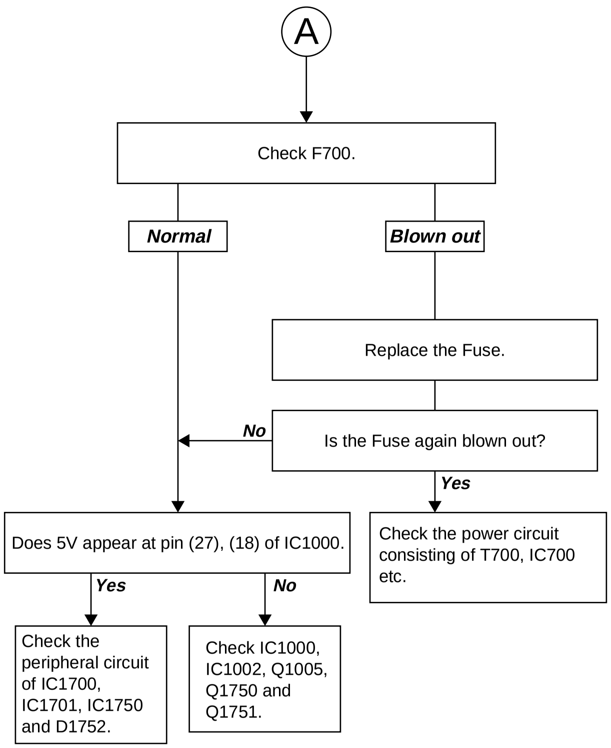

NO RASTER
Does RY1700 turn on?
Yes
No
A
Check CRT connector (KY), (H) bias.
Normal
Abnormal
Check IC3801, IC3802 and IC3803.
Check R1610, IC801 and its peripheral parts.
Turns on, but soon turns off.
Does D1002 (Power LED) turn on?
Yes (RED)
Dose horizontal circuit momentary oscillate?
Yes
No
Check protecter circuit and its related parts (2) pin of IC1000 vertical pulse.
Check the power circuit consisting of IC700, IC752 and IC600.
D1002 (Power LED) turn on and off.
(Bus error)
See many often D1002 flashes in red. This indicates which IC to check up.
B

故障检修流程图（ 接上页 ）

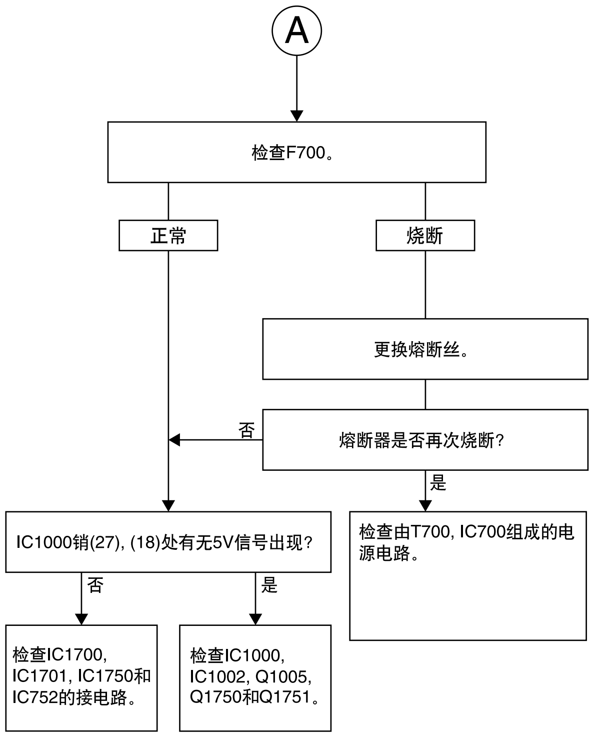
故障检修流程图检查电路：
- 电源电路
- 视频电路
- 保护电路
- 总线线路的邻接电路


无光栅
RY1700是否接通?
是
否
A
检查CRT接线器(KY)和(H)。
正常
不正常
检查IC3801、IC3802、IC3803。
检查RC1610, IC801及其邻接电路。
接通，但随即切断。
D1002(电源发光二极管)是否接通?
是(红灯亮)
Does horizonal circuit momentary oscillate?
是
否
检查保护器电路和与其相关的IC1000 V PULSE（脉冲）的零部件(2)。
检查由IC700, IC752和IC600等组成的主电源电路。
D1002(电源发光二极管)接通、切断交替。
(总线控制有误)
很有可能D1002的红灯闪亮。这表示要进行检查的IC。
B

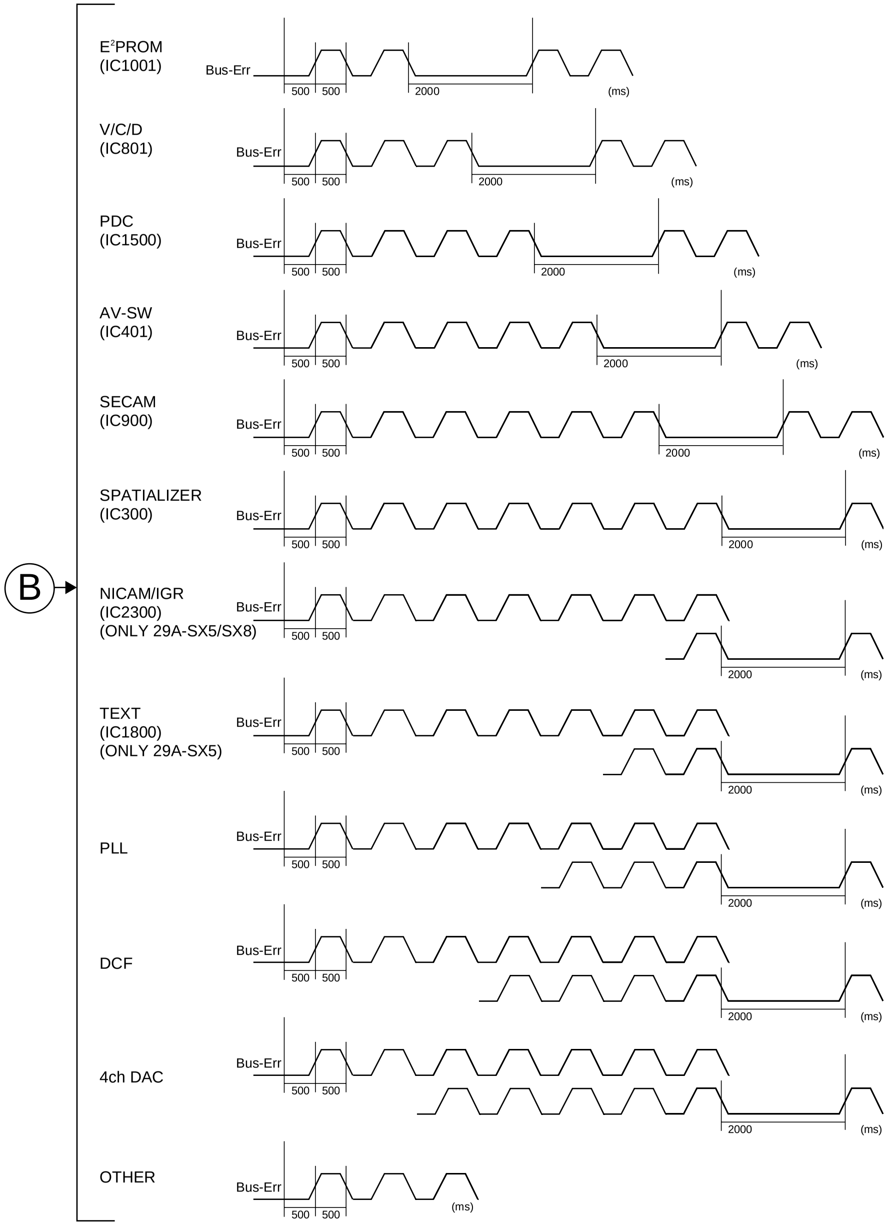
TROUBLE SHOOTING TABLE (Continued)


A
Check F700.
Normal
Blown out
Replace the Fuse.
Is the Fuse again blown out?
No
Yes
Does 5V appear at pin (27), (18) of IC1000.
Check the power circuit consisting of T700, IC700 etc.
Yes
No
Check the peripheral circuit of IC1700, IC1701, IC1750 and D1752.
Check IC1000, IC1002, Q1005, Q1750 and Q1751.

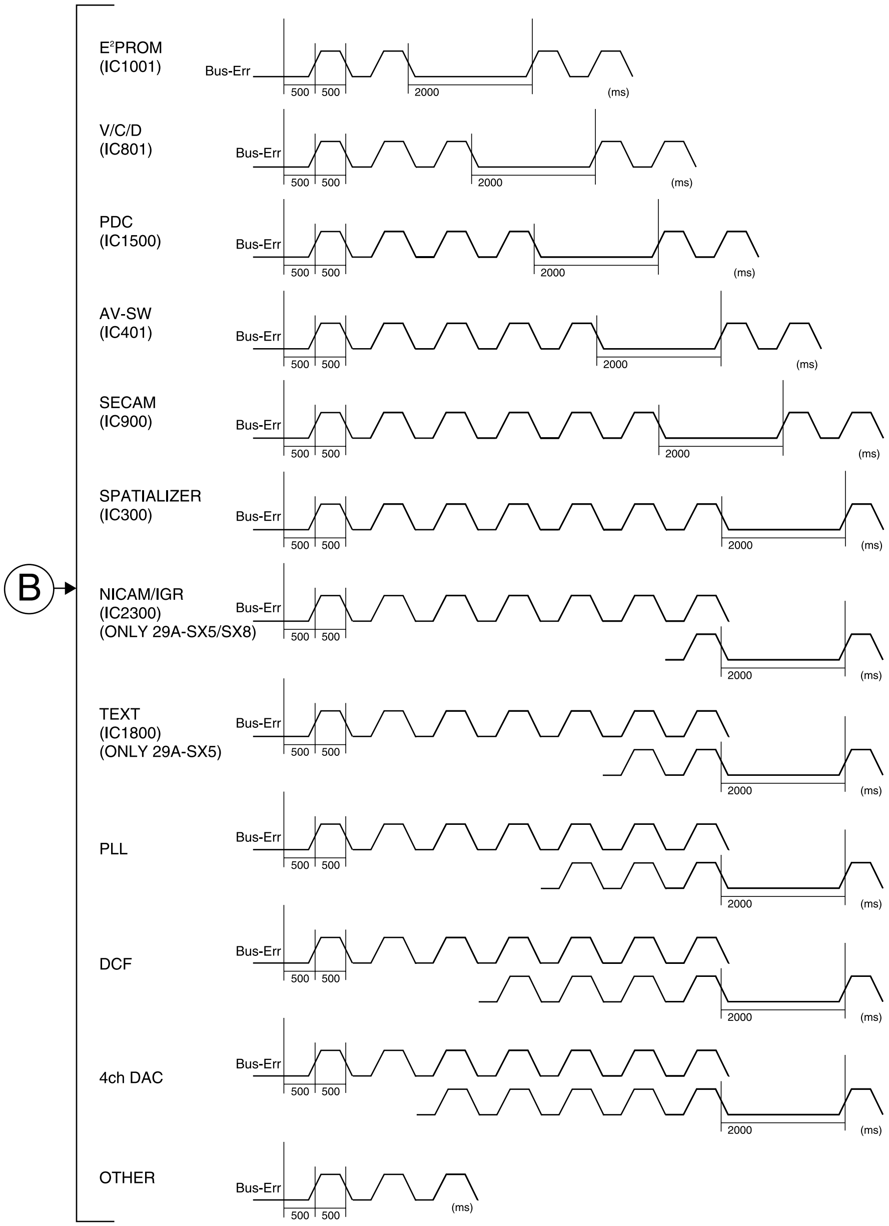
故障检修流程图（接上页）


A
检查F700。
正常
烧断
更换熔断丝。
熔断器是否再次烧断?
否
是
IC1000销(27), (18)处有无5V信号出现?
检查由T700, IC700组成的电源电路。
否
是
检查IC1700, IC1701, IC1750和IC752的接电路。
检查IC1000, IC1002, Q1005, Q1750和Q1751。

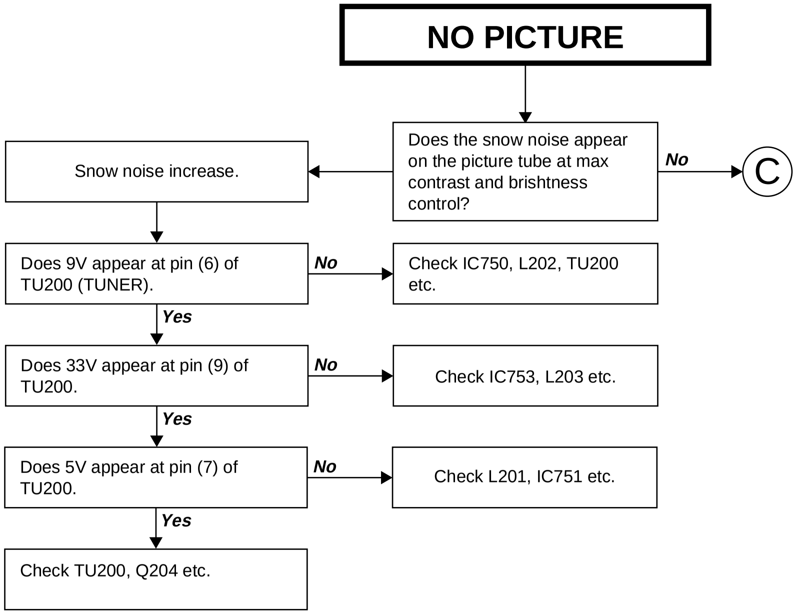
TROUBLE SHOOTING TABLE (Continued)


B
E^{2}PROM (IC1001)
V/C/D (IC801)
PDC (IC1500)
AV-SW (IC401)
SECAM (IC900)
SPATIALIZER (IC300)
NICAM/IGR (IC2300) (ONLY 29A-SX5/SX8)
TEXT (IC1800) (ONLY 29A-SX5)
PLL
DCF
4ch DAC
OTHER
Bus-Err
500
500
2000
(ms)

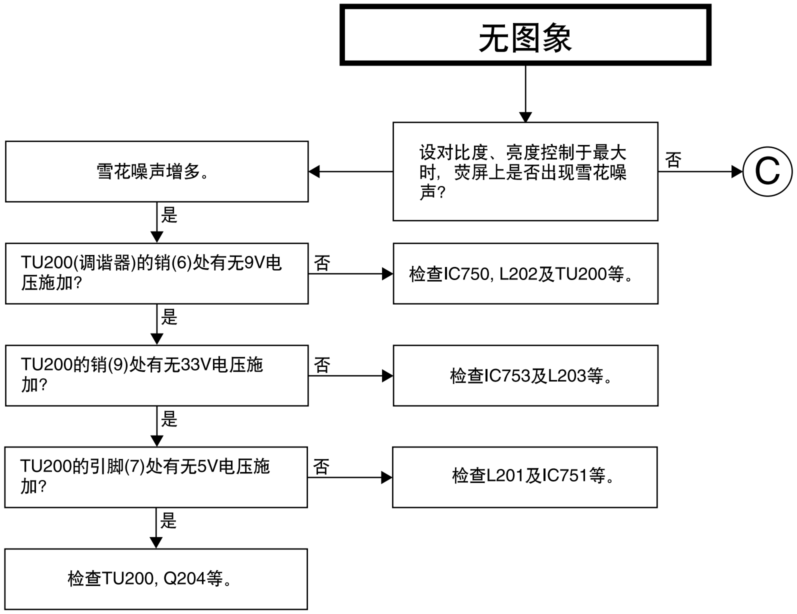
故障检修流程图（接上页）


B
E^{2}PROM (IC1001)
V/C/D (IC801)
PDC (IC1500)
AV-SW (IC401)
SECAM (IC900)
SPATIALIZER (IC300)
NICAM/IGR (IC2300) (ONLY 29A-SX5/SX8)
TEXT (IC1800) (ONLY 29A-SX5)
PLL
DCF
4ch DAC
OTHER
Bus-Err
500
500
2000
(ms)

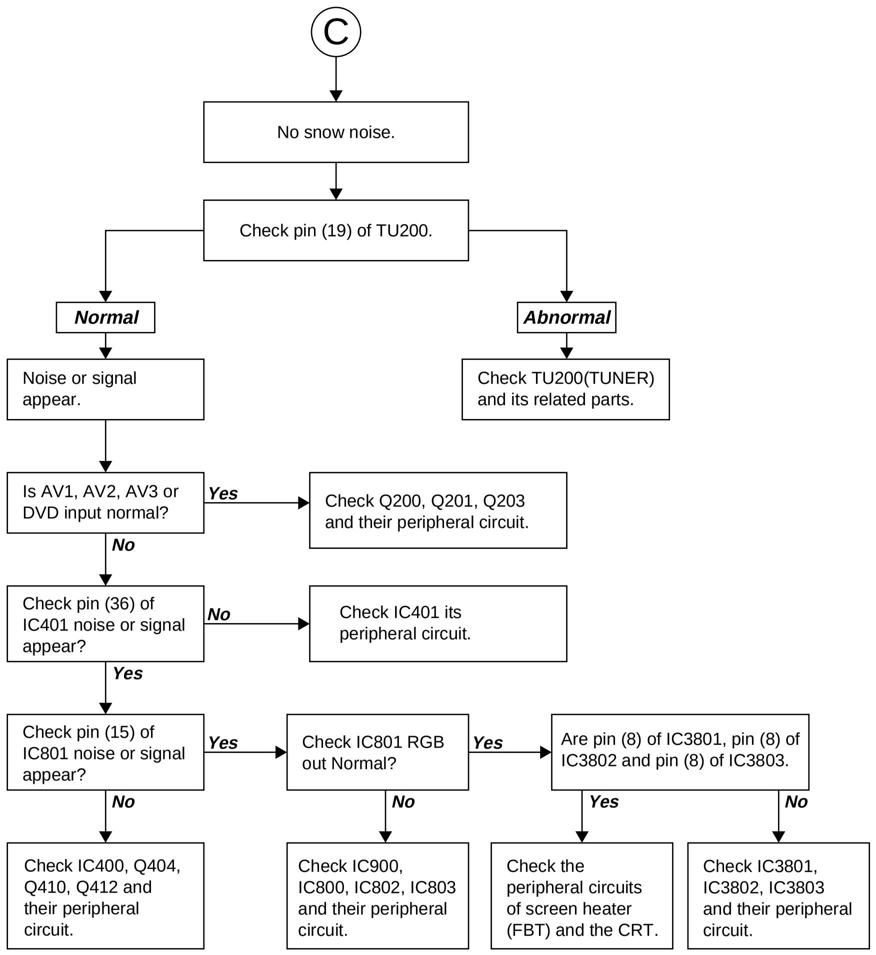
TROUBLE SHOOTING TABLE (Continued)


NO PICTURE
Does the snow noise appear on the picture tube at max contrast and brishtness control?
No
C
Snow noise increase.
Does 9V appear at pin (6) of TU200 (TUNER).
No
Check IC750, L202, TU200 etc.
Yes
Does 33V appear at pin (9) of TU200.
No
Check IC753, L203 etc.
Yes
Does 5V appear at pin (7) of TU200.
No
Check L201, IC751 etc.
Yes
Check TU200, Q204 etc.

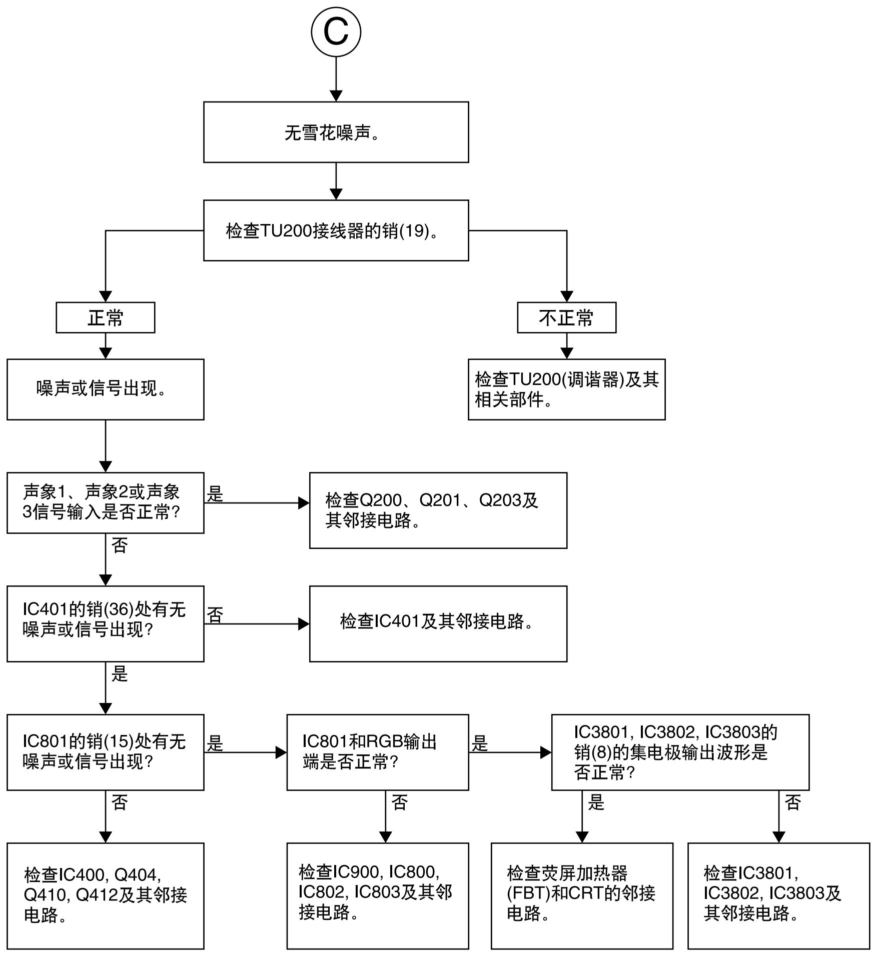
故障检修流程图（接上页）


无图象
设对比度、亮度控制于最大时，荧屏上是否出现雪花噪声?
否
C
雪花噪声增多。
是
TU200(调谐器)的销(6)处有无9V电压施加?
否
检查IC750, L202及TU200等。
是
TU200的销(9)处有无33V电压施加?
否
检查IC753及L203等。
是
TU200的引脚(7)处有无5V电压施加?
否
检查L201及IC751等。
是
检查TU200, Q204等。

TROUBLE SHOOTING TABLE (Continued)

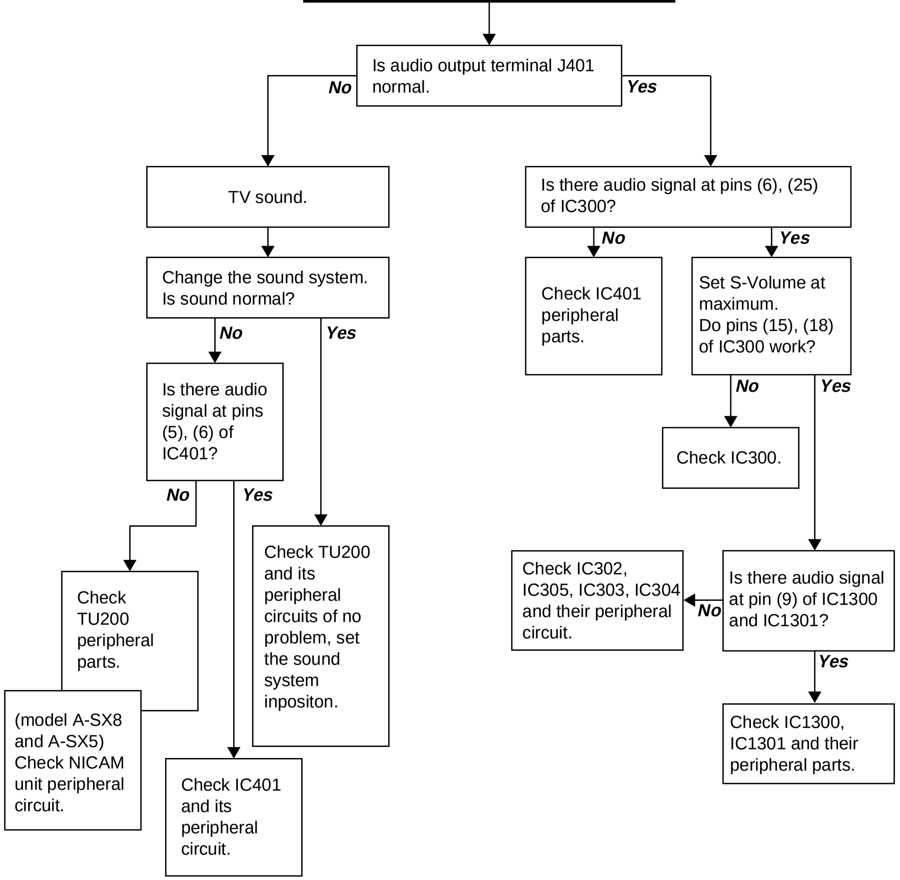

C
No snow noise.
Check pin (19) of TU200.
Normal
Abnormal
Noise or signal appear.
Check TU200(TUNER) and its related parts.
Is AV1, AV2, AV3 or DVD input normal?
Yes
Check Q200, Q201, Q203 and their peripheral circuit.
No
Check pin (36) of IC401 noise or signal appear?
No
Check IC401 its peripheral circuit.
Yes
Check pin (15) of IC801 noise or signal appear?
Yes
Check IC801 RGB out Normal?
Yes
Are pin (8) of IC3801, pin (8) of IC3802 and pin (8) of IC3803.
No
No
Yes
No
Check IC400, Q404, Q410, Q412 and their peripheral circuit.
Check IC900, IC800, IC802, IC803 and their peripheral circuit.
Check the peripheral circuits of screen heater (FBT) and the CRT.
Check IC3801, IC3802, IC3803 and their peripheral circuit.

故障检修流程图（接上页）


C
无雪花噪声。
检查TU200接线器的销(19)。
正常
不正常
噪声或信号出现。
检查TU200(调谐器)及其相关部件。
声象1、声象2或声象3信号输入是否正常?
是
检查Q200、Q201、Q203及其邻接电路。
否
IC401的销(36)处有无噪声或信号出现?
否
检查IC401及其邻接电路。
是
IC801的销(15)处有无噪声或信号出现?
是
IC801和RGB输出端是否正常?
是
IC3801, IC3802, IC3803的销(8)的集电极输出波形是否正常?
否
否
是
否
检查IC400, Q404, Q410, Q412及其邻接电路。
检查IC900, IC800, IC802, IC803及其邻接电路。
检查荧屏加热器(FBT)和CRT的邻接电路。
检查IC3801, IC3802, IC3803及其邻接电路。

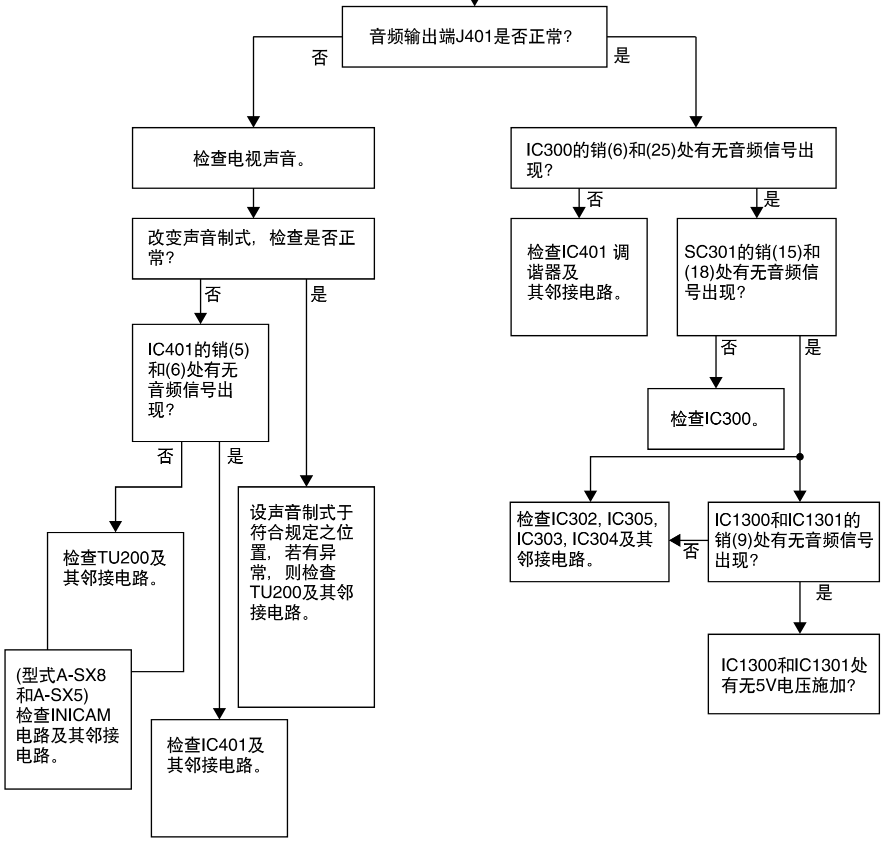
TROUBLE SHOOTING TABLE (Continued)

NO NORMAL SOUND

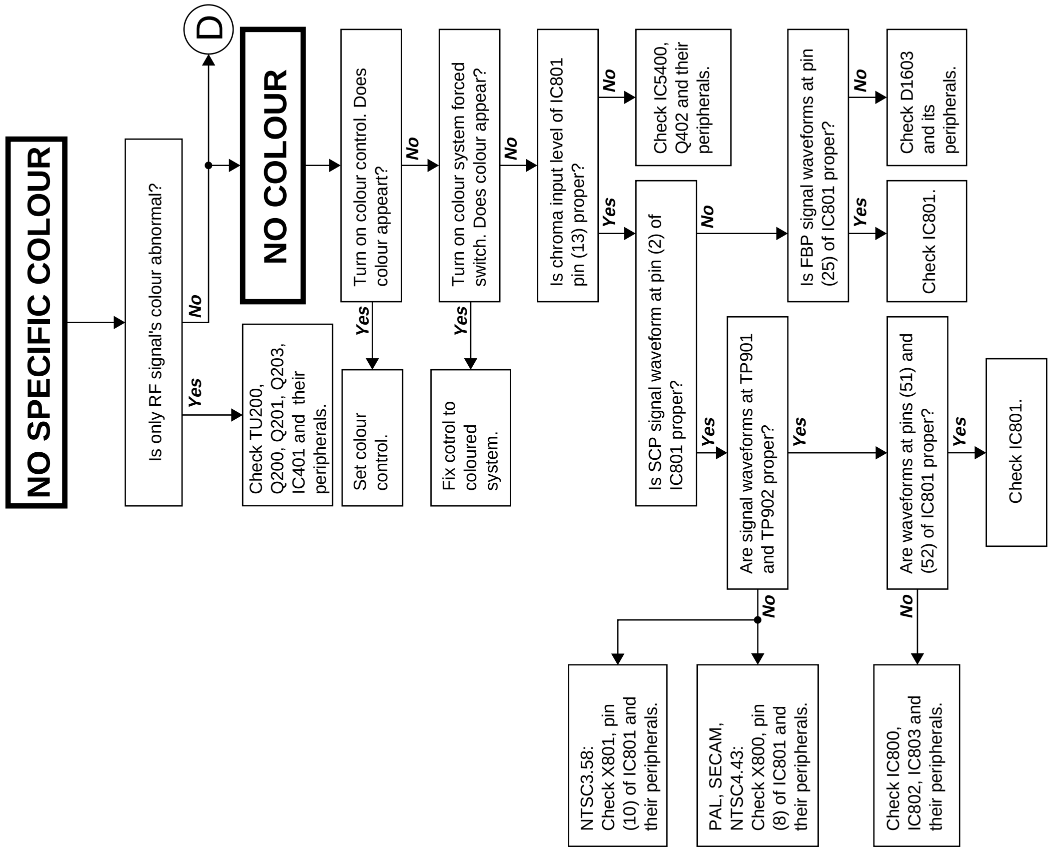

Is audio output terminal J401 normal.
No
Yes
TV sound.
Change the sound system. Is sound normal?
No
Yes
Is there audio signal at pins (5), (6) of IC401?
No
Yes
Check TU200 peripheral parts.
(model A-SX8 and A-SX5) Check NICAM unit peripheral circuit.
Check IC401 and its peripheral circuit.
Check TU200 and its peripheral circuits of no problem, set the sound system inpositon.
Is there audio signal at pins (6), (25) of IC300?
No
Yes
Check IC401 peripheral parts.
Set S-Volume at maximum. Do pins (15), (18) of IC300 work?
No
Yes
Check IC300.
Is there audio signal at pin (9) of IC1300 and IC1301?
No
Yes
Check IC302, IC305, IC303, IC304 and their peripheral circuit.
Check IC1300, IC1301 and their peripheral parts.

故障检修流程图（接上页）

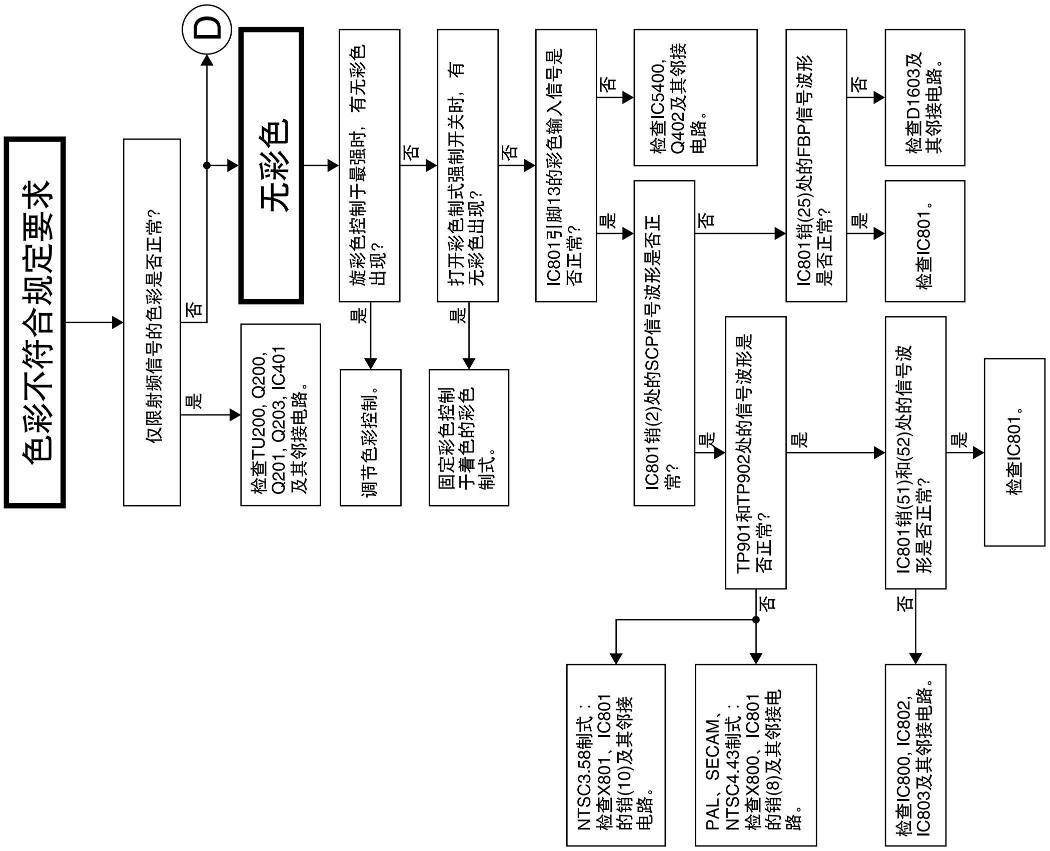
无正常声音输出


音频输出端J401是否正常?
否
是
检查电视声音。
改变声音制式，检查是否正常?
否
是
IC401的销(5)和(6)处有无音频信号出现?
否
是
检查TU200及其邻接电路。
(型式A-SX8和A-SX5)检查INICAM电路及其邻接电路。
检查IC401及其邻接电路。
设声音制式于符合规定之位置，若有异常，则检查TU200及其邻接电路。
IC300的销(6)和(25)处有无音频信号出现?
否
是
检查IC401 调谐器及其邻接电路。
SC301的销(15)和(18)处有无音频信号出现?
否
是
检查IC300。
IC1300和IC1301的销(9)处有无音频信号出现?
否
是
检查IC302, IC305, IC303, IC304及其邻接电路。
IC1300和IC1301处有无5V电压施加?

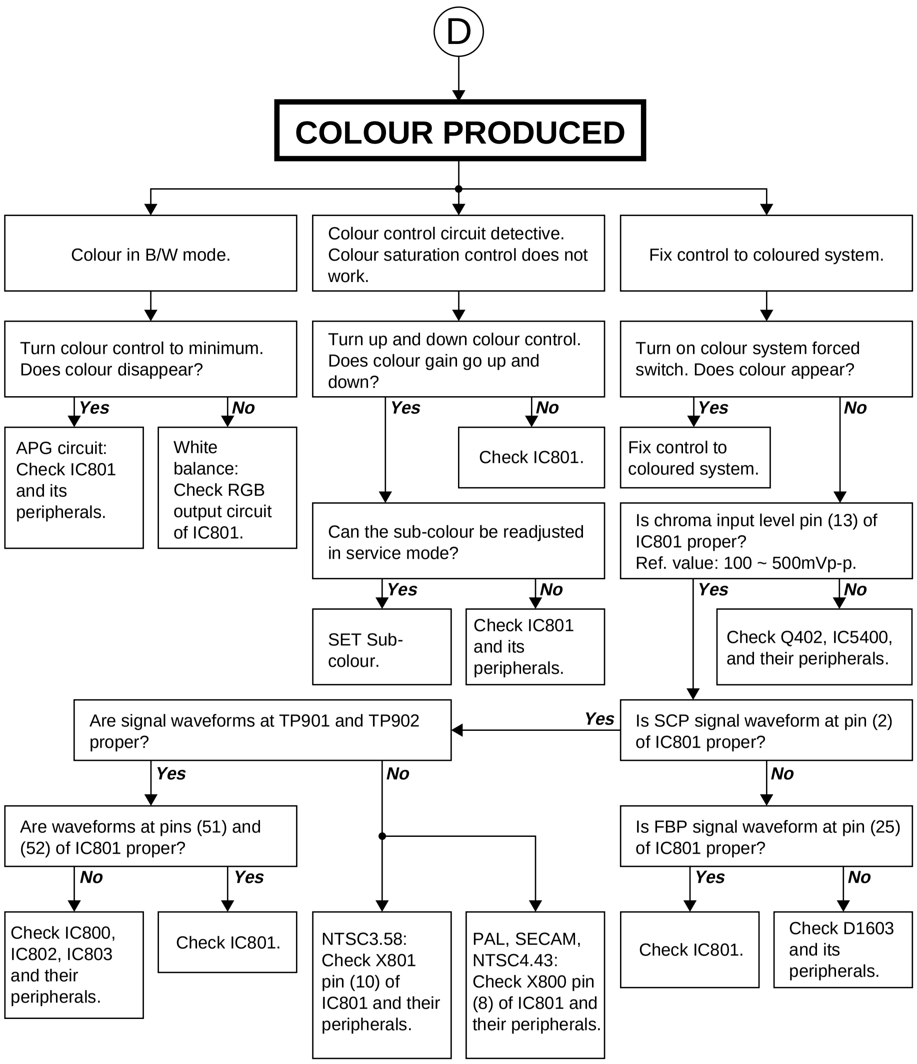
TROUBLE SHOOTING TABLE (Continued)


NO SPECIFIC COLOUR
Is only RF signal's colour abnormal?
Yes
Check TU200, Q200, Q201, Q203, IC401 and their peripherals.
No
D
NO COLOUR
Turn on colour control. Does colour appeart?
Yes
Set colour control.
No
Turn on colour system forced switch. Does colour appear?
Yes
Fix cotrol to coloured system.
No
Is chroma input level of IC801 pin (13) proper?
No
Check IC5400, Q402 and their peripherals.
Yes
Is SCP signal waveform at pin (2) of IC801 proper?
No
Is FBP signal waveforms at pin (25) of IC801 proper?
No
Check D1603 and its peripherals.
Yes
Check IC801.
Yes
Are signal waveforms at TP901 and TP902 proper?
Yes
Are waveforms at pins (51) and (52) of IC801 proper?
Yes
Check IC801.
No
Check IC800, IC802, IC803 and their peripherals.
No
NTSC3.58: Check X801, pin (10) of IC801 and their peripherals.
PAL, SECAM, NTSC4.43: Check X800, pin (8) of IC801 and their peripherals.

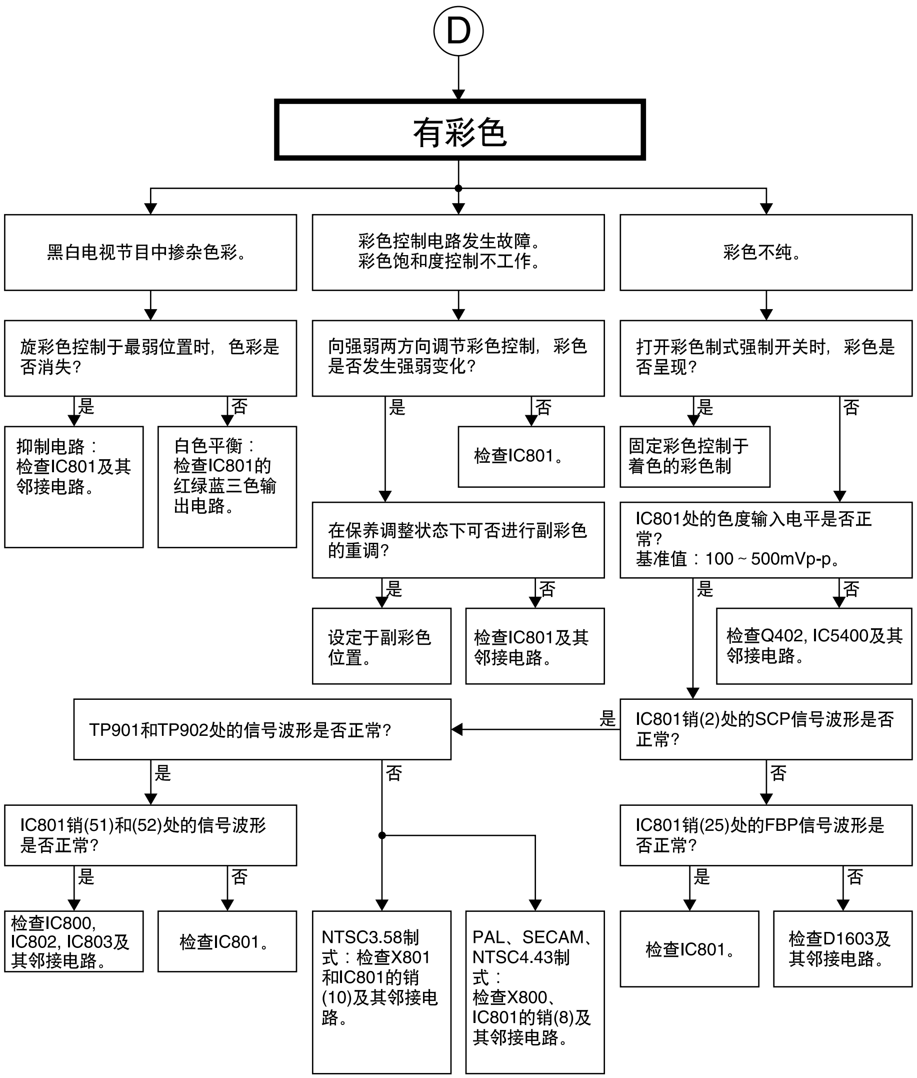
故障检修流程图（接上页）


色彩不符合规定要求
仅限射频信号的色彩是否正常?
是
检查TU200, Q200, Q201, Q203, IC401及其邻接电路。
否
D
无彩色
旋彩色控制于最强时，有无彩色出现？
是
调节色彩控制。
否
打开彩色制式强制开关时，有无彩色出现？
是
固定彩色控制于着色的彩色制式。
否
IC801引脚13的彩色输入信号是否正常?
否
检查IC5400, Q402及其邻接电路。
是
IC801销(2)处的SCP信号波形是否正常？
否
IC801销(25)处的FBP信号波形是否正常?
否
检查D1603及其邻接电路。
是
检查IC801。
是
TP901和TP902处的信号波形是否正常?
是
IC801销(51)和(52)处的信号波形是否正常?
是
检查IC801。
否
检查IC800, IC802, IC803及其邻接电路。
否
NTSC3.58制式：检查X801、IC801的销(10)及其邻接电路。
PAL、SECAM、NTSC4.43制式：检查X800、IC801的销(8)及其邻接电路。

TROUBLE SHOOTING TABLE (Continued)

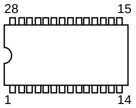

D
COLOUR PRODUCED
Colour in B/W mode.
Colour control circuit detective. Colour saturation control does not work.
Fix control to coloured system.
Turn colour control to minimum. Does colour disappear?
Yes
No
APG circuit: Check IC801 and its peripherals.
White balance: Check RGB output circuit of IC801.
Turn up and down colour control. Does colour gain go up and down?
Yes
No
Check IC801.
Can the sub-colour be readjusted in service mode?
Yes
No
SET Sub-colour.
Check IC801 and its peripherals.
Turn on colour system forced switch. Does colour appear?
Yes
No
Fix control to coloured system.
Is chroma input level pin (13) of IC801 proper? Ref. value: 100 ~ 500mVp-p.
Yes
No
Check Q402, IC5400, and their peripherals.
Is SCP signal waveform at pin (2) of IC801 proper?
Yes
No
Are signal waveforms at TP901 and TP902 proper?
Yes
No
Are waveforms at pins (51) and (52) of IC801 proper?
No
Yes
Check IC800, IC802, IC803 and their peripherals.
Check IC801.
NTSC3.58: Check X801 pin (10) of IC801 and their peripherals.
PAL, SECAM, NTSC4.43: Check X800 pin (8) of IC801 and their peripherals.
Is FBP signal waveform at pin (25) of IC801 proper?
Yes
No
Check IC801.
Check D1603 and its peripherals.

故障检修流程图（接上页）

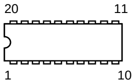

D
有彩色
黑白电视节目中掺杂色彩。
彩色控制电路发生故障。彩色饱和度控制不工作。
彩色不纯。
旋彩色控制于最弱位置时，色彩是否消失？
是
否
抑制电路：检查IC801及其邻接电路。
白色平衡：检查IC801的红绿蓝三色输出电路。
向强弱两方向调节彩色控制，彩色是否发生强弱变化？
是
否
检查IC801。
在保养调整状态下可否进行副彩色的重调？
是
否
设定于副彩色位置。
检查IC801及其邻接电路。
打开彩色制式强制开关时，彩色是否呈现？
是
否
固定彩色控制于着色的彩色制
IC801处的色度输入电平是否正常？基准值：100 ~ 500mVp-p。
是
否
检查Q402, IC5400及其邻接电路。
IC801销(2)处的SCP信号波形是否正常？
是
否
TP901和TP902处的信号波形是否正常？
是
否
IC801销(51)和(52)处的信号波形是否正常？
是
否
检查IC800, IC802, IC803及其邻接电路。
检查IC801。
NTSC3.58制式：检查X801和IC801的销(10)及其邻接电路。
PAL、SECAM、NTSC4.43制式：检查X800、IC801的销(8)及其邻接电路。
IC801销(25)处的FBP信号波形是否正常？
是
否
检查IC801。
检查D1603及其邻接电路。

SOLID STATE DEVICE BASE DIAGRAM
固体器件基座图

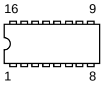
TOP VIEW 俯视图



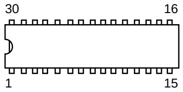
VHiTC9090AN-1



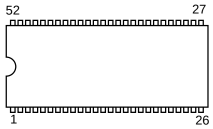
VHiLH64256C-1



VHiNJM2284M-1



VHiTA8772AN-1
VHiAN7396K/-1



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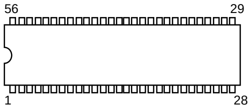
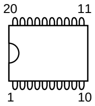
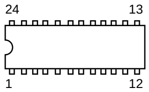


RH-iX3323CEZZ



VHiTDA9808T-1



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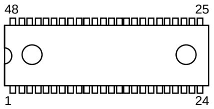
VHiTA1241AN-1



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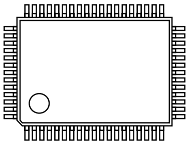

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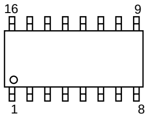
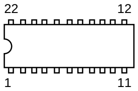


VHiNJM2284M-1



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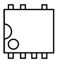

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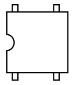

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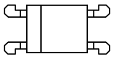
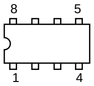
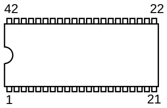


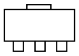
RH-FX0008GEZZ



VHiM24C08B/-1
VHiBA7655AF-1
VHiM62334FP-1
VHiNJM2168M-1
VHiNJM2243M-1
VHiNJM2534M-1
VHiNJM4560M-1

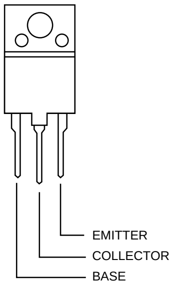


VHiTA1218AN-1

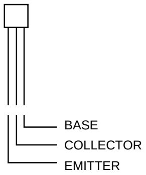


VHiNJ78L09U-1
VHiNJ78L12U-1

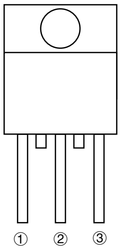
SIDE VIEW 侧视图


EMITTER
COLLECTOR
BASE

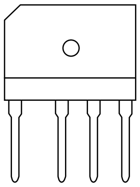
VS2SD2581//1E
VS2SD2045//-1
VS2SA1837//-1
VS2SC4793//-1


BASE
COLLECTOR
EMITTER

VS2SA1015Y/1E
VS2SC1815GW-1
VS2SC2482//-1
VS2SA1266-Y-1
VS2SC3198Y-1
VS2SA1246//1E
VS2SC1959Y/1E



VHiSi3051N/-1
VHiKA7809Pi-1
VHiSE120N//-1



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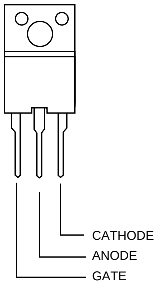
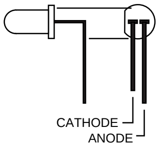
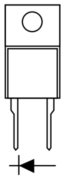

CATHODE
ANODE
GATE

VHSTF861S//-1


CATHODE
ANODE

PX0274CE



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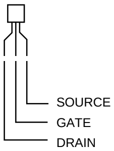
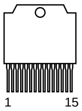
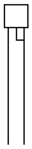

SOURCE
GATE
DRAIN

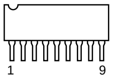
VS2SK583///-1



VHiTDA7482/-1



RH-iX0037CEZZ



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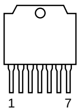
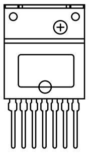
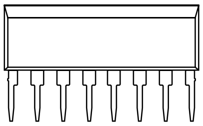


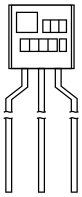
VHiTA8427K/-1



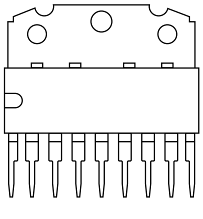
VHiSTRM6821-1



VHiM51497L/-1

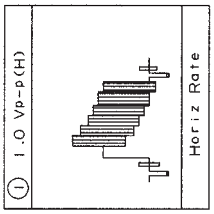


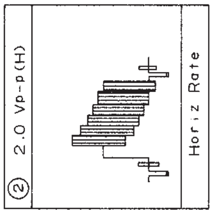
VHiPST994C/-1

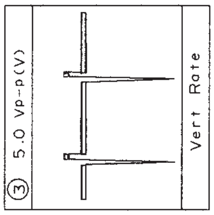


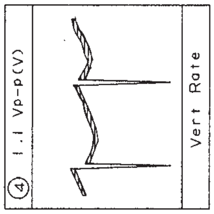
VHiTDA6101Q-1

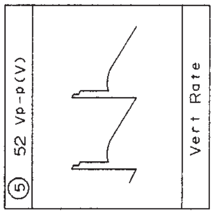
WAVEFORMS
波形图

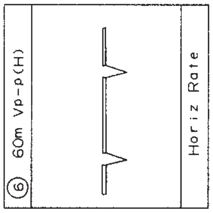


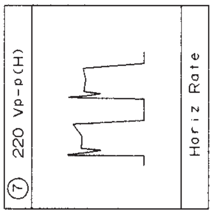


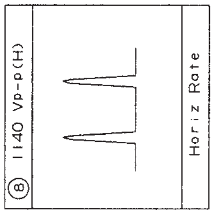


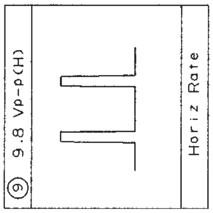


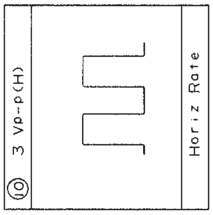


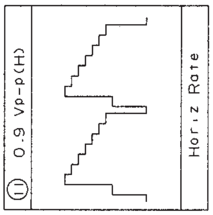


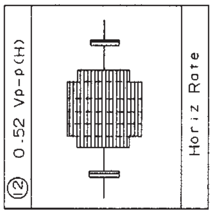


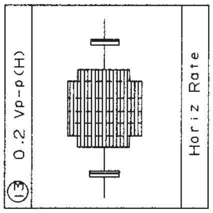


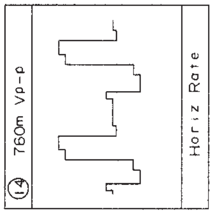


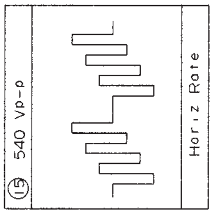


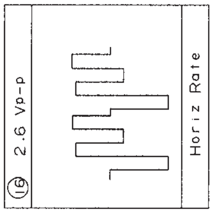


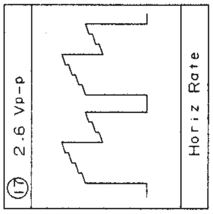


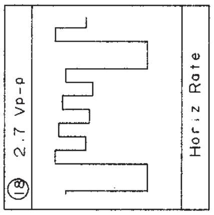


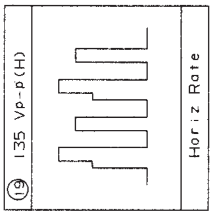


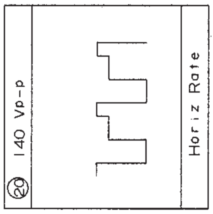


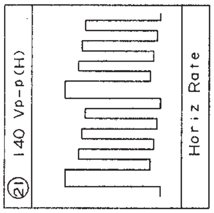


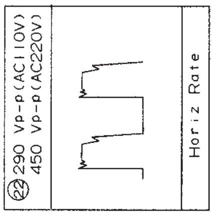






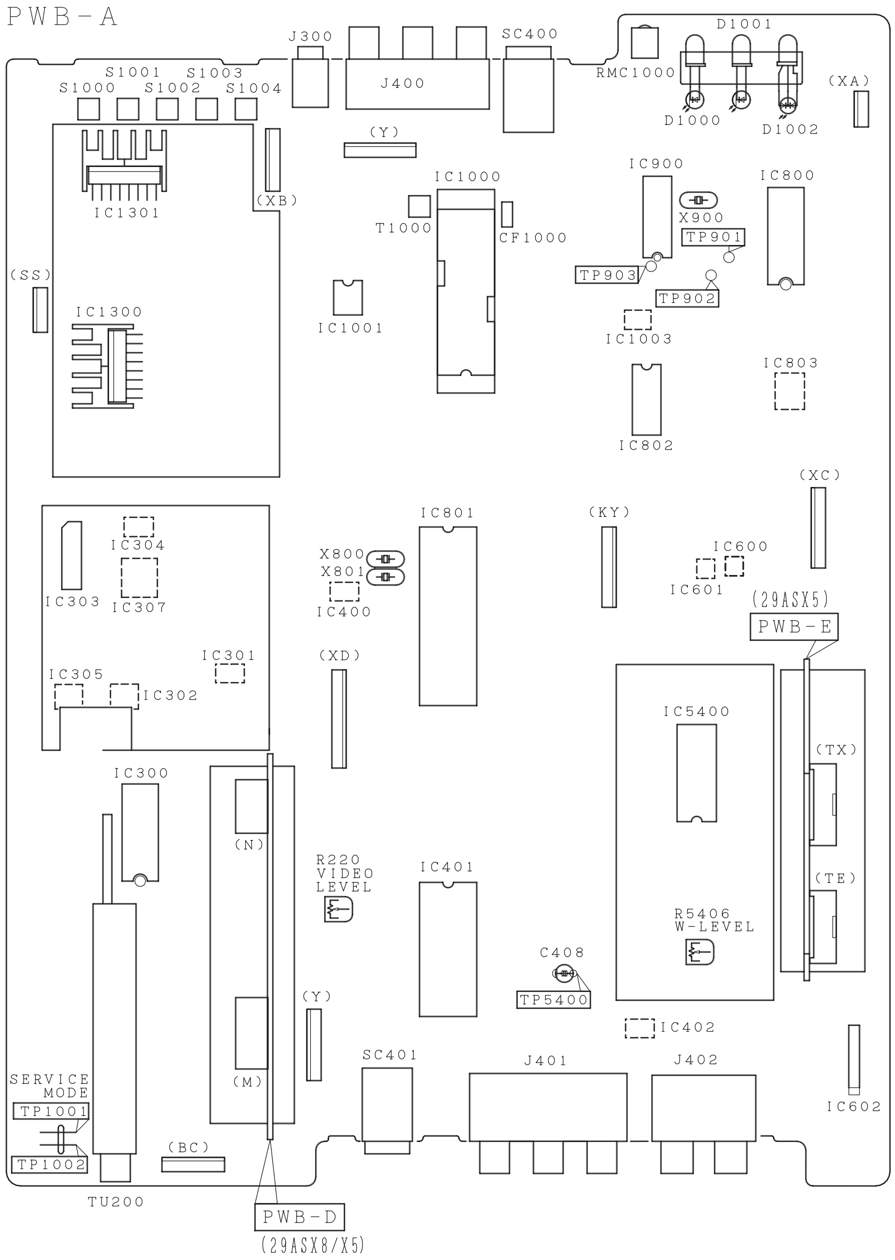




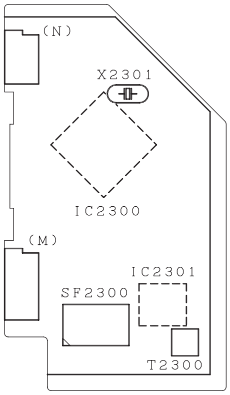


CHASSIS LAYOUT

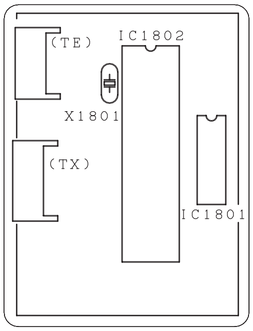
机芯底盘电路布置


PWB-A
J300
SC400
D1001
S1001
S1003
S1000
S1002
S1004
J400
RMC1000
(XA)
D1000
D1002
(Y)
IC1000
IC900
IC800
IC1301
(XB)
T1000
X900
TP901
CF1000
(SS)
TP903
TP902
IC1300
IC1001
IC1003
IC803
IC802
(XC)
IC801
(KY)
IC304
X800
X801
IC600
IC303
IC307
IC601
IC400
(29ASX5)
PWB-E
IC301
(XD)
IC305
IC302
IC5400
(TX)
IC300
(N)
R220
VIDEO
LEVEL
IC401
(TE)
R5406
W-LEVEL
C408
(Y)
TP5400
IC402
SC401
J401
J402
SERVICE
MODE
TP1001
(M)
IC602
(BC)
TP1002
TU200
PWB-D
(29ASX8/X5)

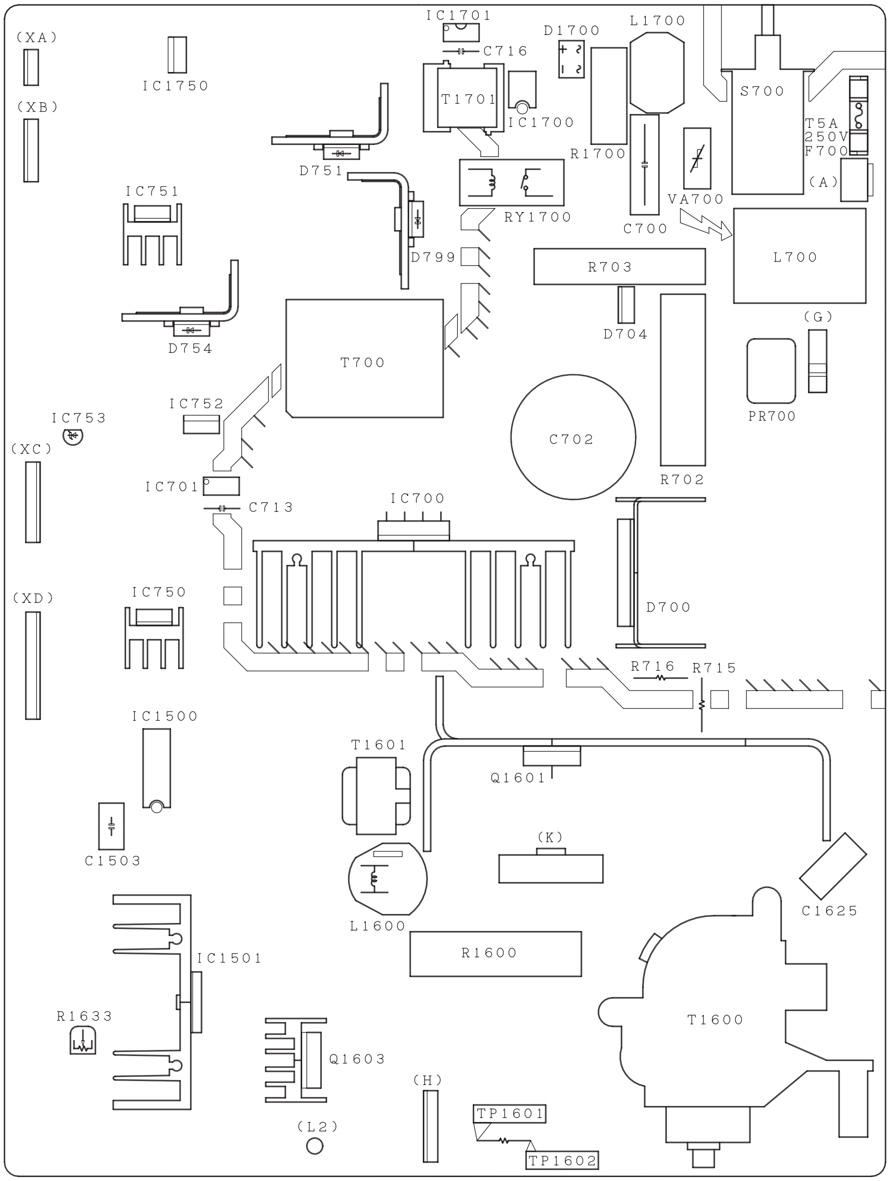
(29ASX8/X5)
PWB-D


(N)
X2301
IC2300
(M)
IC2301
SF2300
T2300

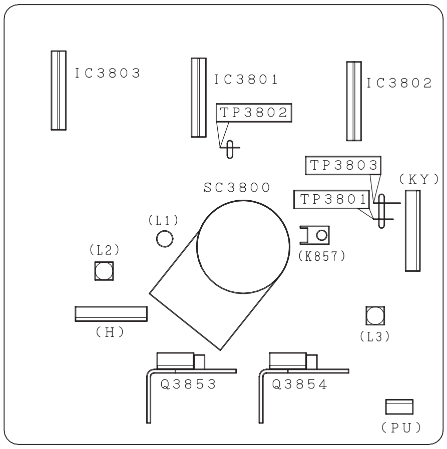
(29ASX5)
PWB-E


(TE)
IC1802
X1801
(TX)
IC1801

PWB-B


(XA)
IC1750
(XB)
IC751
D754
IC1701
C716
T1701
IC1700
D751
D799
D1700
L1700
S700
R1700
T5A
250V
F700
(A)
RY1700
C700
VA700
L700
R703
D704
(G)
T700
IC752
IC753
(XC)
C702
PR700
R702
IC701
C713
IC700
D700
(XD)
IC750
R716
R715
IC1500
T1601
Q1601
C1503
(K)
C1625
L1600
R1600
IC1501
R1633
T1600
Q1603
(H)
TP1601
TP1602
(L2)

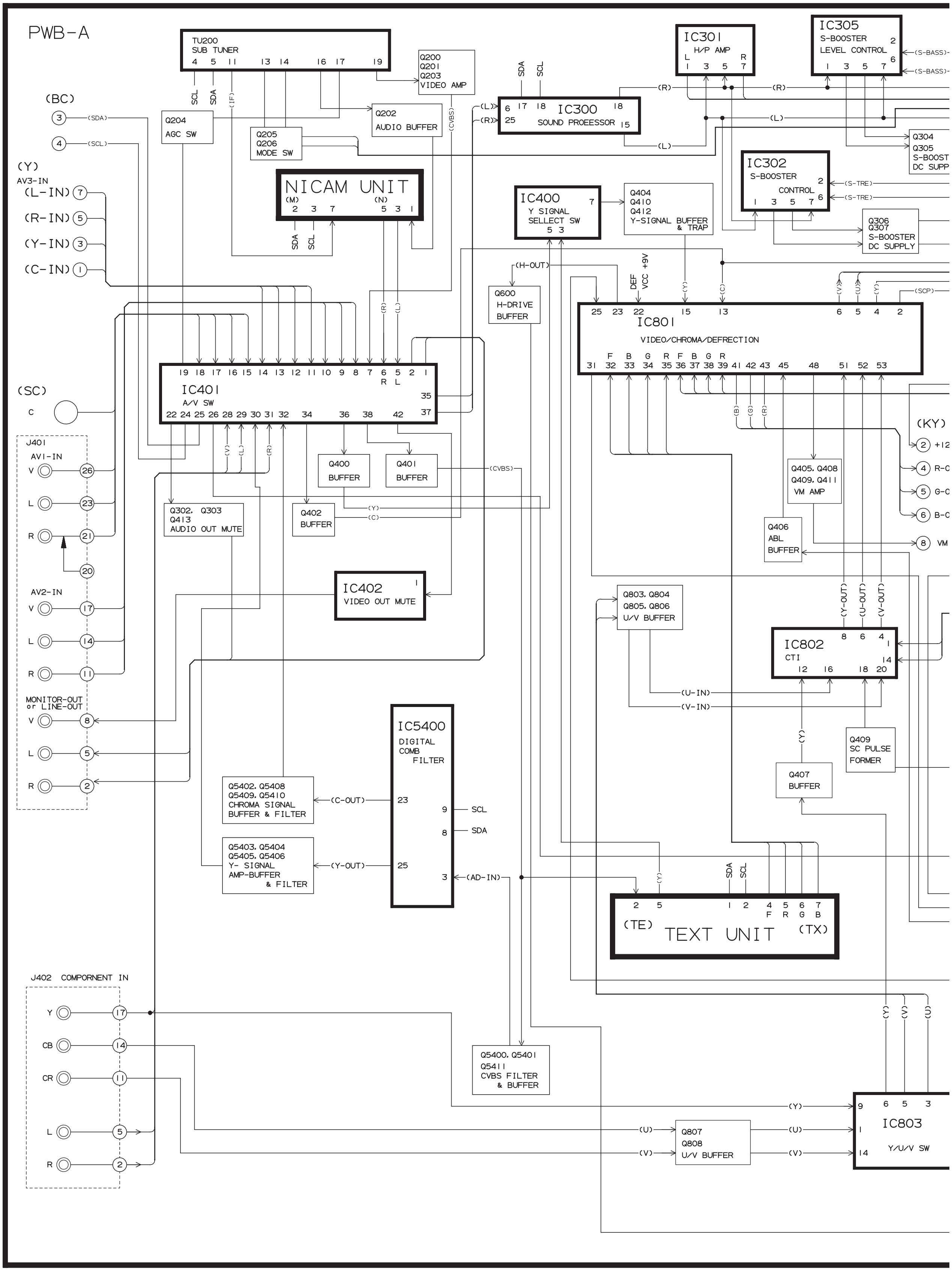
PWB-C

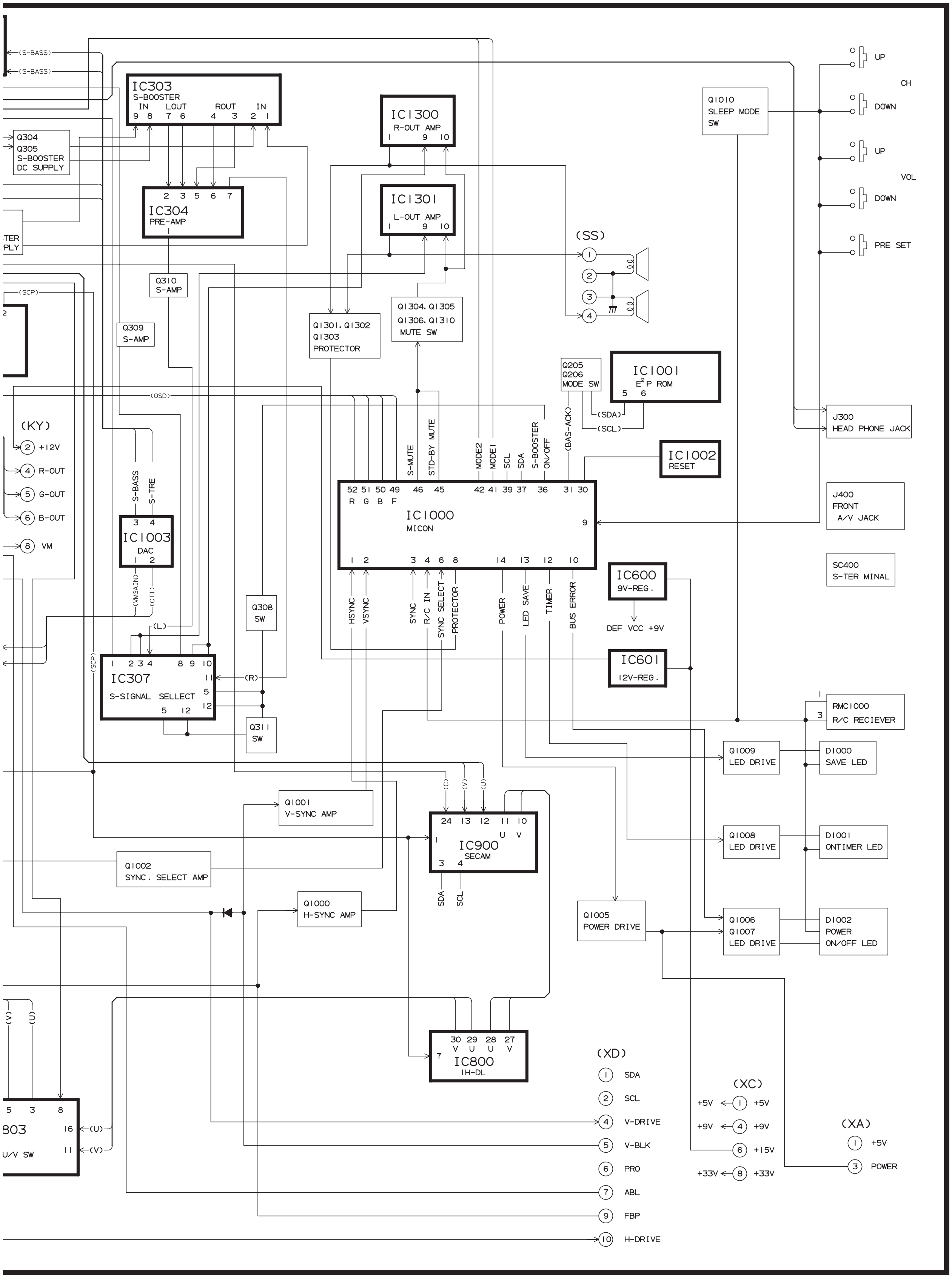

IC3803
IC3801
IC3802
TP3802
TP3803
TP3801
(KY)
SC3800
(L1)
(L2)
(K857)
(H)
(L3)
Q3853
Q3854
(PU)

BLOCK DIAGRAM
电路方框图

MAIN UNIT BLOCK DIAGRAM
MAIN电路装置电路方框图

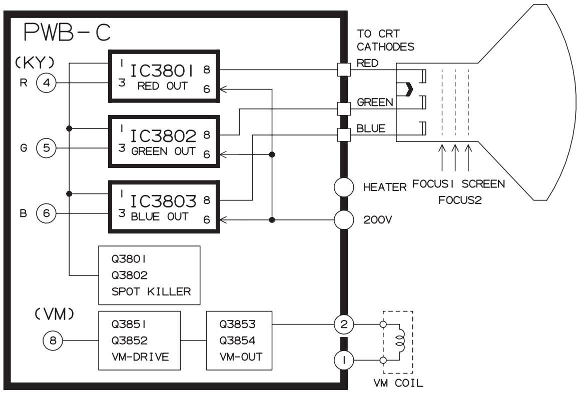
BLOCK I


PWB-A
TU200 SUB TUNER
4 5 11 13 14 16 17 19
Q200 Q201 Q203 VIDEO AMP
Q202 AUDIO BUFFER
Q204 AGC SW
Q205 Q206 MODE SW
(BC)
3 (SDA)
4 (SCL)
SCL SDA (IF) (CVBS)
NICAM UNIT
(M) (N)
2 3 7 5 3 1
SDA SCL
(Y)
AV3-IN
(L-IN) 7
(R-IN) 5
(Y-IN) 3
(C-IN) 1
IC300 SOUND PROEESSOR
6 17 18 18 25 15
(L) (R)
IC301 H/P AMP
L R 1 3 5 7
IC305 S-BOOSTER LEVEL CONTROL
2 6 1 3 5 7
(S-BASS)
Q304 Q305 S-BOOST DC SUPP
IC302 S-BOOSTER CONTROL
2 6 1 3 5 7
(S-TRE)
Q306 Q307 S-BOOSTER DC SUPPLY
IC400 Y SIGNAL SELLECT SW
7 5 3
Q404 Q410 Q412 Y-SIGNAL BUFFER & TRAP
(H-OUT)
Q600 H-DRIVE BUFFER
DEF VCC +9V
(Y) (C) (Y) (U) (Y) (SCP)
IC801 VIDEO/CHROMA/DEFRECTION
25 23 22 15 13 6 5 4 2
F B G R F B G R
31 32 33 34 35 36 37 38 39 41 42 43 45 48 51 52 53
(B) (G) (R)
(SC)
C
IC401 A/V SW
19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 2 1
R L
35 37
22 24 25 26 28 29 30 31 32 34 36 38 42
(R) (L)
(Y) (L) (R)
J401
AV1-IN
V 26
L 23
R 21
20
AV2-IN
V 17
L 14
R 11
MONITOR-OUT or LINE-OUT
V 8
L 5
R 2
Q400 BUFFER
Q401 BUFFER
(CVBS)
Q302, Q303 Q413 AUDIO OUT MUTE
Q402 BUFFER
(Y) (C)
IC402 VIDEO OUT MUTE
1
(KY)
2 +12
4 R-C
5 G-C
6 B-C
8 VM
Q405, Q408 Q409, Q411 VM AMP
Q406 ABL BUFFER
Q803, Q804 Q805, Q806 U/V BUFFER
(Y-OUT) (U-OUT) (V-OUT)
IC802 CTI
8 6 4 1 14 12 16 18 20
(U-IN) (V-IN)
(Y)
Q409 SC PULSE FORMER
Q407 BUFFER
IC5400 DIGITAL COMB FILTER
23 9 8 25 3
SCL SDA
(C-OUT) (Y-OUT) (AD-IN)
Q5402, Q5408 Q5409, Q5410 CHROMA SIGNAL BUFFER & FILTER
Q5403, Q5404 Q5405, Q5406 Y- SIGNAL AMP-BUFFER & FILTER
(Y) SDA SCL
TEXT UNIT
2 5 1 2 4 5 6 7
F R G B
(TE) (TX)
J402 COMPORNENT IN
Y 17
CB 14
CR 11
L 5
R 2
Q5400, Q5401 Q5411 CVBS FILTER & BUFFER
(Y) (V) (U)
(Y) (U) (V)
Q807 Q808 U/V BUFFER
IC803 Y/U/V SW
6 5 3 9 1 14

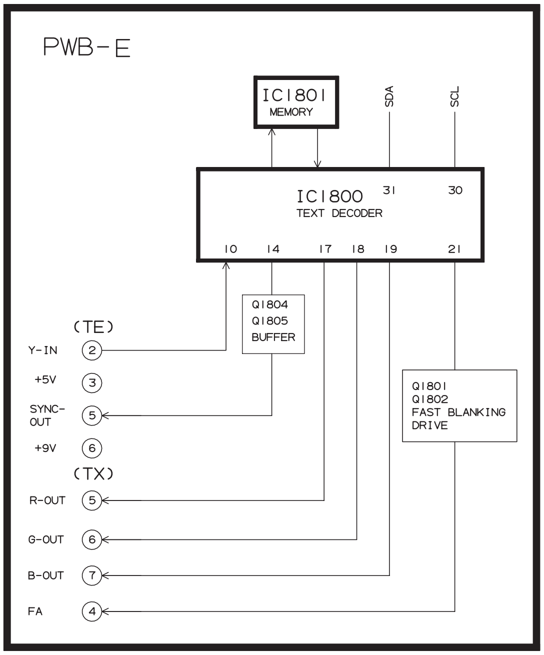

(S-BASS)
(S-BASS)
IC303
S-BOOSTER
IN LOUT ROUT IN
9 8 7 6 4 3 2 1
Q304
Q305
S-BOOSTER
DC SUPPLY
IC304
PRE-AMP
2 3 5 6 7
1
TER
PLY
Q310
S-AMP
Q309
S-AMP
(SCP)
IC1300
R-OUT AMP
1 9 10
IC1301
L-OUT AMP
1 9 10
Q1301, Q1302
Q1303
PROTECTOR
Q1304, Q1305
Q1306, Q1310
MUTE SW
(SS)
1
2
3
4
Q1010
SLEEP MODE
SW
UP
CH
DOWN
UP
VOL
DOWN
PRE SET
Q205
Q206
MODE SW
IC1001
E²P ROM
5 6
(SDA)
(SCL)
J300
HEAD PHONE JACK
IC1002
RESET
J400
FRONT
A/V JACK
SC400
S-TER MINAL
(OSD)
(KY)
2 +12V
4 R-OUT
5 G-OUT
6 B-OUT
8 VM
S-BASS
S-TRE
IC1003
DAC
3 4
1 2
(VMGAIN)
(CTI)
S-MUTE
STD-BY MUTE
MODE2
MODE1
SCL
SDA
S-BOOSTER ON/OFF
(BAS-ACK)
IC1000
MICON
52 51 50 49 46 45 42 41 39 37 36 31 30
R G B F
9
1 2 3 4 6 8 14 13 12 10
HSYNC
VSYNC
SYNC
R/C IN
SYNC SELECT
PROTECTOR
POWER
LED SAVE
TIMER
BUS ERROR
IC600
9V-REG.
DEF VCC +9V
IC601
12V-REG.
Q308
SW
Q311
SW
(L)
(R)
(SCP)
IC307
S-SIGNAL SELLECT
1 2 3 4 8 9 10
11
5
12
5 12
RMC1000
R/C RECIEVER
1
3
Q1009
LED DRIVE
D1000
SAVE LED
Q1008
LED DRIVE
D1001
ONTIMER LED
Q1006
Q1007
LED DRIVE
D1002
POWER
ON/OFF LED
Q1005
POWER DRIVE
Q1001
V-SYNC AMP
Q1002
SYNC. SELECT AMP
Q1000
H-SYNC AMP
(C)
(V)
(U)
IC900
SECAM
24 13 12 11 10
U V
1
3 4
SDA
SCL
IC800
1H-DL
30 29 28 27
V U U V
7
(V)
(U)
803
U/V SW
5 3 8
16
11
(U)
(V)
(XD)
1 SDA
2 SCL
4 V-DRIVE
5 V-BLK
6 PRO
7 ABL
9 FBP
10 H-DRIVE
(XC)
+5V 1 +5V
+9V 4 +9V
6 +15V
+33V 8 +33V
(XA)
1 +5V
3 POWER

POWER/CRT/NICAM/IGR/TEXT UNIT BLOCK DIAGRAM
POWER/CRT/NICAM/IGR/TEXT 电路装置 电路方框图

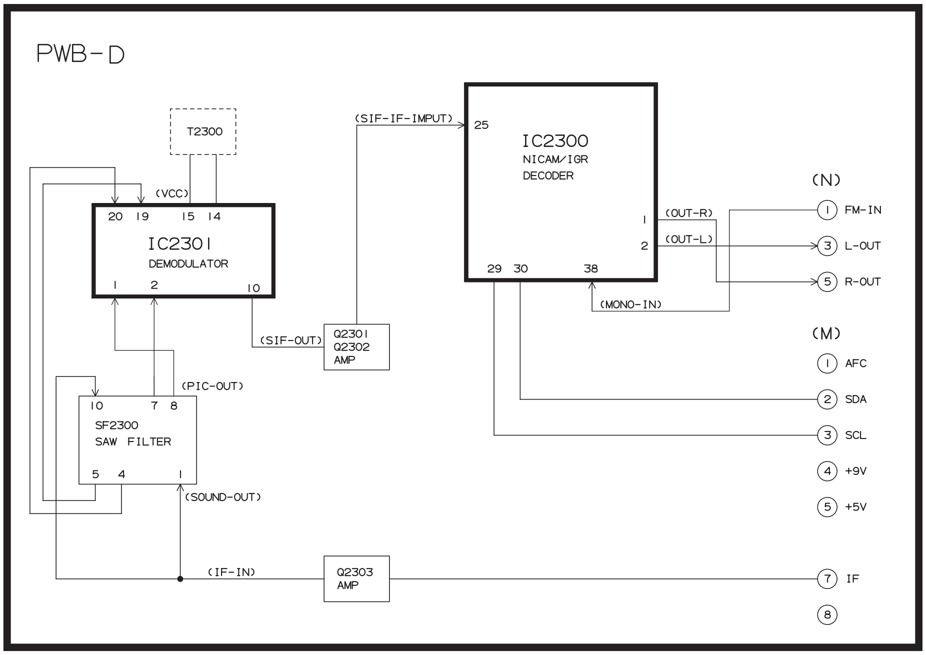
BLOCK2

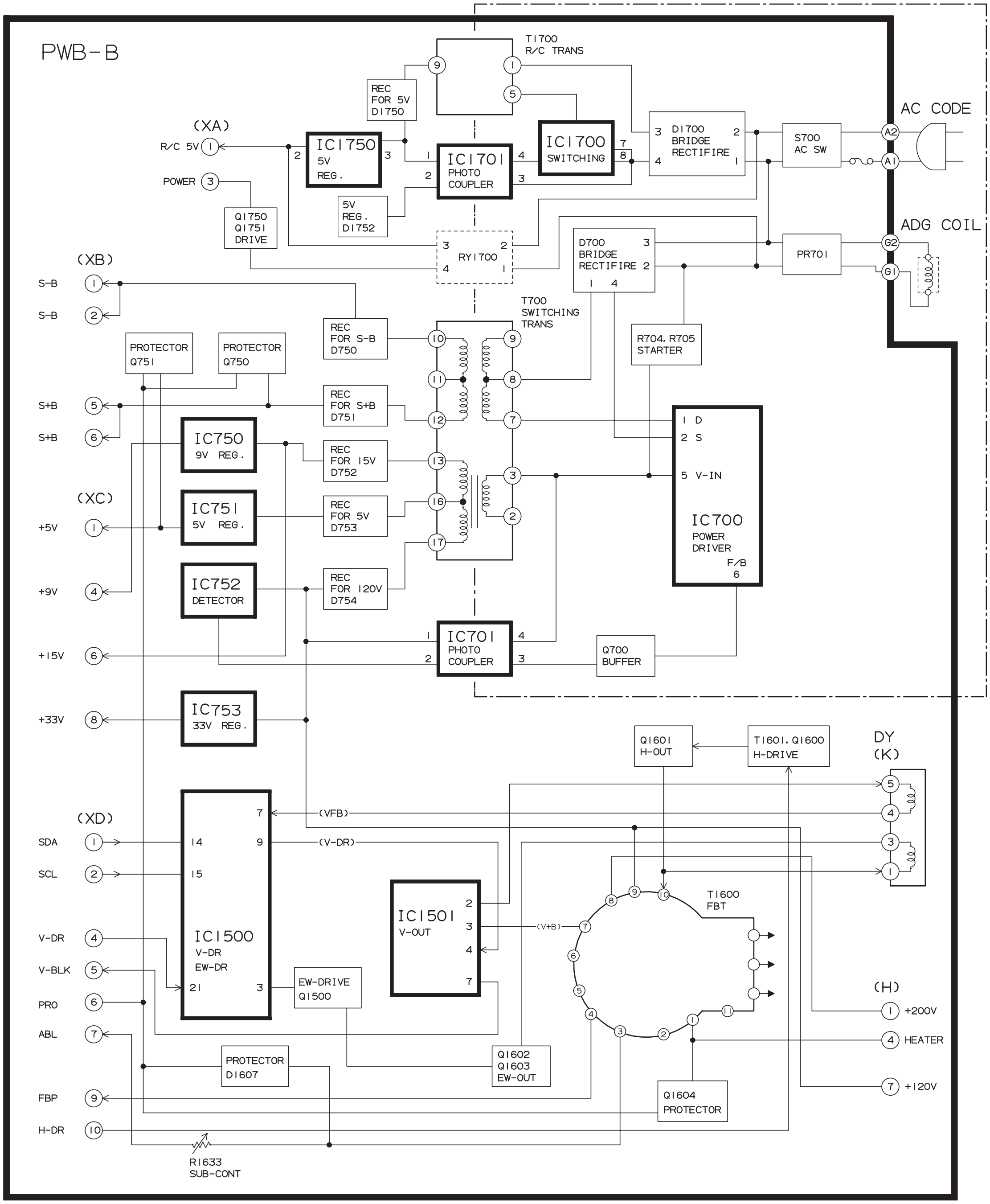

PWB-C
(KY)
R 4
G 5
B 6
IC3801 RED OUT
IC3802 GREEN OUT
IC3803 BLUE OUT
1
3
8
6
Q3801
Q3802
SPOT KILLER
(VM)
8
Q3851
Q3852
VM-DRIVE
Q3853
Q3854
VM-OUT
2
1
VM COIL
TO CRT
CATHODES
RED
GREEN
BLUE
HEATER
200V
FOCUS1
SCREEN
FOCUS2

(29ASX5)


PWB-E
IC1801
MEMORY
SDA
SCL
IC1800
TEXT DECODER
31
30
10
14
17
18
19
21
Q1804
Q1805
BUFFER
Q1801
Q1802
FAST BLANKING
DRIVE
(TE)
Y-IN 2
+5V 3
SYNC-OUT 5
+9V 6
(TX)
R-OUT 5
G-OUT 6
B-OUT 7
FA 4

(29ASX8/X5)


PWB-D
T2300
(VCC)
20
19
15
14
IC2301
DEMODULATOR
1
2
10
(SIF-OUT)
Q2301
Q2302
AMP
(SIF-IF-IMPUT)
25
IC2300
NICAM/IGR
DECODER
1
2
(OUT-R)
(OUT-L)
29
30
38
(MONO-IN)
(PIC-OUT)
10
7
8
SF2300
SAW FILTER
5
4
1
(SOUND-OUT)
(IF-IN)
Q2303
AMP
(N)
1 FM-IN
3 L-OUT
5 R-OUT
(M)
1 AFC
2 SDA
3 SCL
4 +9V
5 +5V
7 IF
8


PWB-B
T1700
R/C TRANS
REC FOR 5V D1750
(XA)
R/C 5V
POWER
IC1750
5V REG.
IC1701
PHOTO COUPLER
IC1700
SWITCHING
D1700 BRIDGE RECTIFIRE
S700 AC SW
AC CODE
A2
A1
5V REG. D1752
Q1750 Q1751 DRIVE
RY1700
D700 BRIDGE RECTIFIRE
PR701
ADG COIL
G2
G1
(XB)
S-B
S-B
S+B
S+B
PROTECTOR Q751
PROTECTOR Q750
REC FOR S-B D750
T700 SWITCHING TRANS
R704, R705 STARTER
REC FOR S+B D751
IC750
9V REG.
REC FOR 15V D752
(XC)
+5V
IC751
5V REG.
REC FOR 5V D753
IC700
POWER DRIVER
1 D
2 S
5 V-IN
F/B 6
+9V
IC752
DETECTOR
REC FOR 120V D754
+15V
IC701
PHOTO COUPLER
Q700 BUFFER
+33V
IC753
33V REG.
Q1601 H-OUT
T1601, Q1600 H-DRIVE
DY (K)
(XD)
SDA
SCL
V-DR
V-BLK
PRO
ABL
FBP
H-DR
IC1500
V-DR EW-DR
(VFB)
(V-DR)
IC1501
V-OUT
(V+B)
T1600 FBT
EW-DRIVE Q1500
(H)
+200V
HEATER
+120V
PROTECTOR D1607
Q1602 Q1603 EW-OUT
Q1604 PROTECTOR
R1633 SUB-CONT

DESCRIPTION OF SCHEMATIC DIAGRAM

SAFETY NOTES:

1. *DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACING PARTS.*
2. *SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.*

IMPORTANT SAFETY NOTICE:

PARTS MARKED WITH "⚠" (▨) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

SERVICE PRECAUTION:

THE AREA ENCLOSED BY THIS LINE (▬ ▬ ▬) IS DIRECTLY CONNECTED WITH AC MAINS VOLTAGE.
WHEN SERVICING THE AREA, CONNECT AN ISOLATING TRANSFORMER BETWEEN TV RECEIVER AND AC LINE TO ELIMINATE HAZARD OF ELECTRIC SHOCK.

NOTES:

1. *The unit of resistance "ohm" is omitted. (K = 1000 ohms, M = Meg ohm).*
2. *All resistors are 1/16 watt, unless otherwise noted.*
3. *All capacitors are µF, unless therwise noted. (P = µµF).*

VOLTAGE MEASUREMENT CONDITIONS:

1. *Voltage in parenthesis measured with no Signal.*
2. *Voltages without parenthesis measured with PAL Colour-Signal.*
3. *All the voltages in each point are measured high impedance voltmeter.*

WAVEFORM MEASUREMENT CONDITIONS:

1. *Colour bar generator signal of 1.5V peak to peak applied at Base of Video Buffer Amp. Q200.*
2. *Approximately 4.0 V AGC bias.*

电路原理图的说明

安全注意事项：

1. 在进行部件更换之前，务请拔出电源插头。
2. 本装置工作时，机芯底盘的半导体散热片有触电之虑，务请注意。

安全使用注意要点：

标有 "⚠" （ ▨ ）的部件对于电视机安全的维护有至关重要的意义。为了维护本机的安全和使本机能正常工作，必须使用指定品来更换这些部件。

维修注意：

被（▬ ▬ ▬）线围起的地方直接和交流电压相连接。当对该处进行维修时，为了排除遭受电击的危险性，要在电视接收机和交流电源之间连接隔离变压器。

电路单位说明：

1. 电阻欧姆（Ω）单位予以略记（K＝千欧姆，M＝兆欧姆）。
2. 除特别说明者外，图中电阻功率均为1/16瓦特。
3. 除特别说明者（P ＝微微法拉）外，图中电容单位均为μF（微法拉）。

电压测定条件

1. 括号中的电压值为无信号状态下所测。
2. 括号外的电压值为PAL彩色信号状态下所测。
3. 所有测试点的电压值均为电子高电阻计VTVM所测。

波形测定条件：

1. 施加1.5Vp-p的彩条发生器信号于视频缓冲放大器Q200的基极。
2. 自动增益控制偏压约为4.0V。

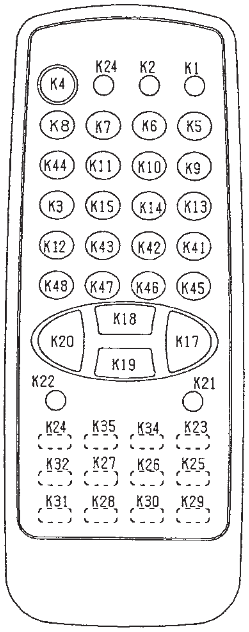
SCHEMATIC DIAGRAM
电路原理图

Infrared Remote Control Unit
红外线遥控器

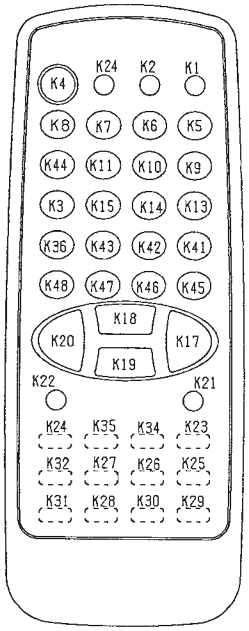
NOTE: The parts here shown are supplied as an assembly but not independently.

注意 ：在更换零件订货时，请以一套为最小单位，切勿以单件订货。

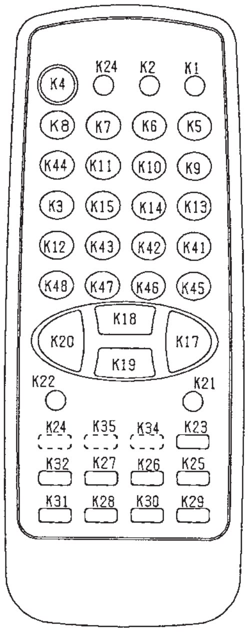
RRMCG1497PESA


K4
K24
K2
K1
K8
K7
K6
K5
K44
K11
K10
K9
K3
K15
K14
K13
K12
K43
K42
K41
K48
K47
K46
K45
K18
K20
K17
K19
K22
K21
K24
K35
K34
K23
K32
K27
K26
K25
K31
K28
K30
K29

RRMCG1500PESA


K4
K24
K2
K1
K8
K7
K6
K5
K44
K11
K10
K9
K3
K15
K14
K13
K36
K43
K42
K41
K48
K47
K46
K45
K18
K20
K17
K19
K22
K21
K24
K35
K34
K23
K32
K27
K26
K25
K31
K28
K30
K29

RRMCG1498PESA


K4
K24
K2
K1
K8
K7
K6
K5
K44
K11
K10
K9
K3
K15
K14
K13
K12
K43
K42
K41
K48
K47
K46
K45
K18
K20
K17
K19
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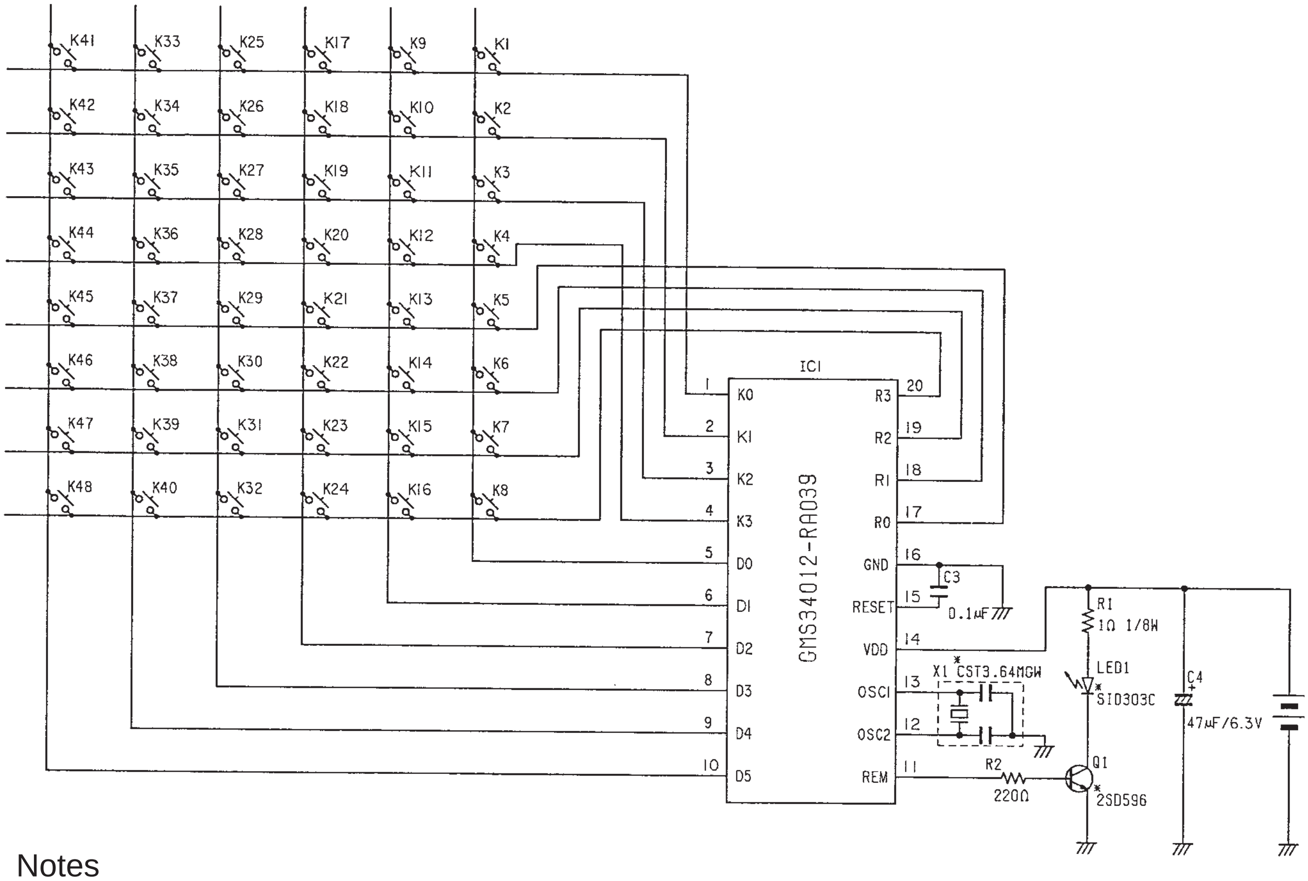
K24
K35
K34
K23
K32
K27
K26
K25
K31
K28
K30
K29


K41
K33
K25
K17
K9
K1
K42
K34
K26
K18
K10
K2
K43
K35
K27
K19
K11
K3
K44
K36
K28
K20
K12
K4
K45
K37
K29
K21
K13
K5
K46
K38
K30
K22
K14
K6
K47
K39
K31
K23
K15
K7
K48
K40
K32
K24
K16
K8
IC1
GMS34012-RA039
1 K0
2 K1
3 K2
4 K3
5 D0
6 D1
7 D2
8 D3
9 D4
10 D5
20 R3
19 R2
18 R1
17 R0
16 GND
15 RESET
14 VDD
13 OSC1
12 OSC2
11 REM
C3
0.1μF
X1 CST3.64MGW
R2
220Ω
Q1
2SD596
R1
1Ω 1/8W
LED1
SID303C
C4
47μF/6.3V

Notes

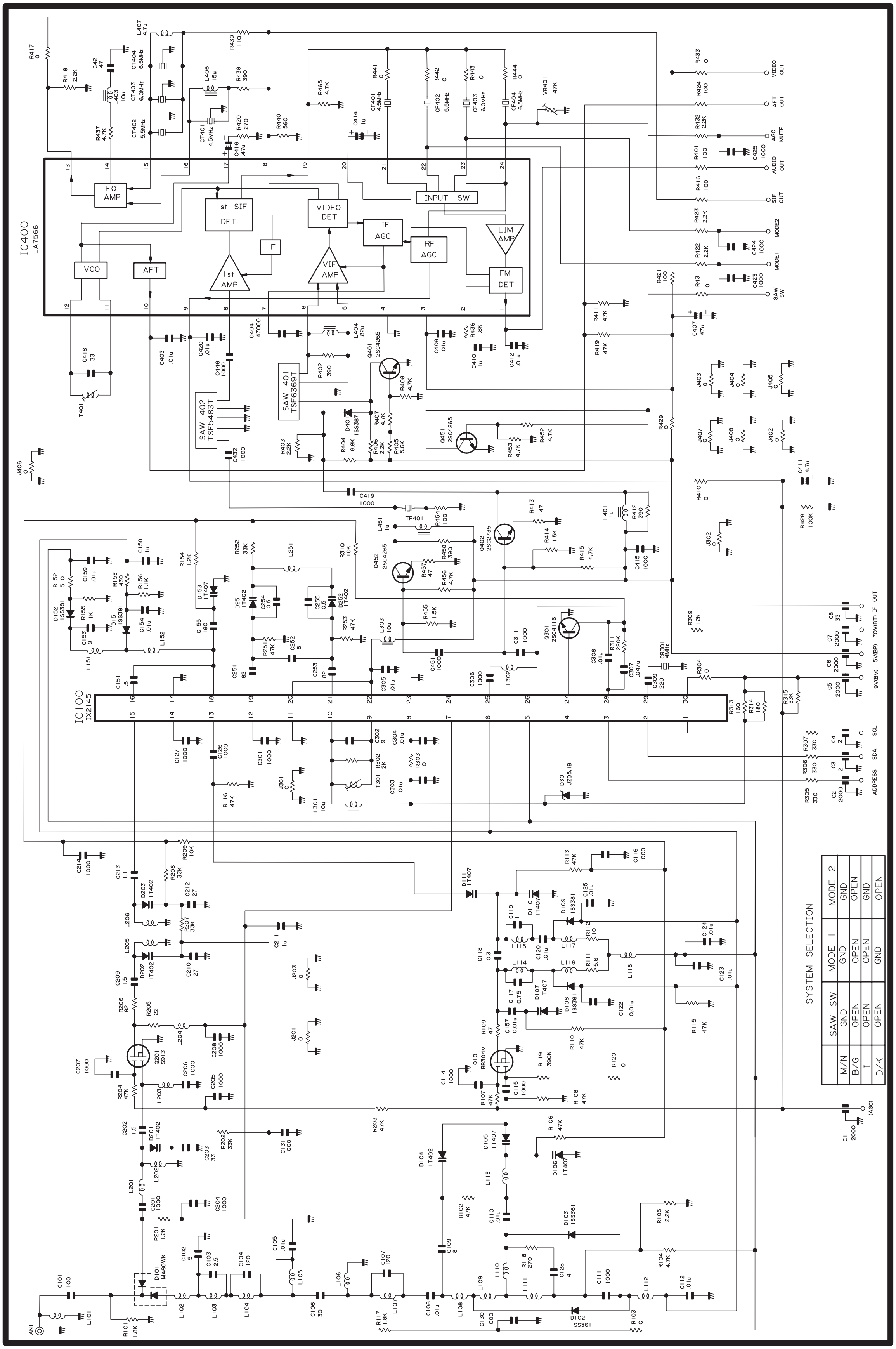
Unless specified, the resistors are 1/10W ± 5%.

■ Tuner 调谐器 (TU200)

⚠ VTUVTBT6ED265

NOTE: The parts here shown are supplied as an assembly but not independently.

注意 ：在更换零件订货时，请以一套为最小单位，切勿以单件订货。


IC400
LA7566
EQ AMP
1st SIF DET
VIDEO DET
INPUT SW
IF AGC
RF AGC
LIM AMP
FM DET
VCO
AFT
F
1st AMP
VIF AMP
SAW 401 TSF6369T
SAW 402 TSF5483T
IC100
IX2145
Q401 2SC4265
Q451 2SC4265
Q452 2SC4265
Q402 2SC2735
Q301 2SC4116
Q201 S913
Q101 BB304M
T401
T301
TP401
X301 4MHz
D301 UZ05.1B
D101 MA80WK
D102 1SS361
D103 1SS361
D104 1T402
D105 1T407
D106 1T407
D107 1T407
D108 1SS381
D109 1SS381
D110 1T407
D111 1T407
D201 1T402
D202 1T402
D203 1T402
D151 1SS381
D152 1SS381
D153 1T407
D251 1T402
D252 1T402
D401 1SS387
CF401 4.5MHz
CF402 5.5MHz
CF403 6.0MHz
CF404 6.5MHz
CT401 4.5MHz
CT402 5.5MHz
CT403 6.0MHz
CT404 6.5MHz
VR401 47K
VIDEO OUT
AFT OUT
AGC MUTE
AUDIO OUT
SIF OUT
MODE2
MODE1
SAW SW
IF OUT
30V(BT)
5V(BP)
9V(BM)
SCL
SDA
ADDRESS
(AGC)
ANT

SYSTEM SELECTION

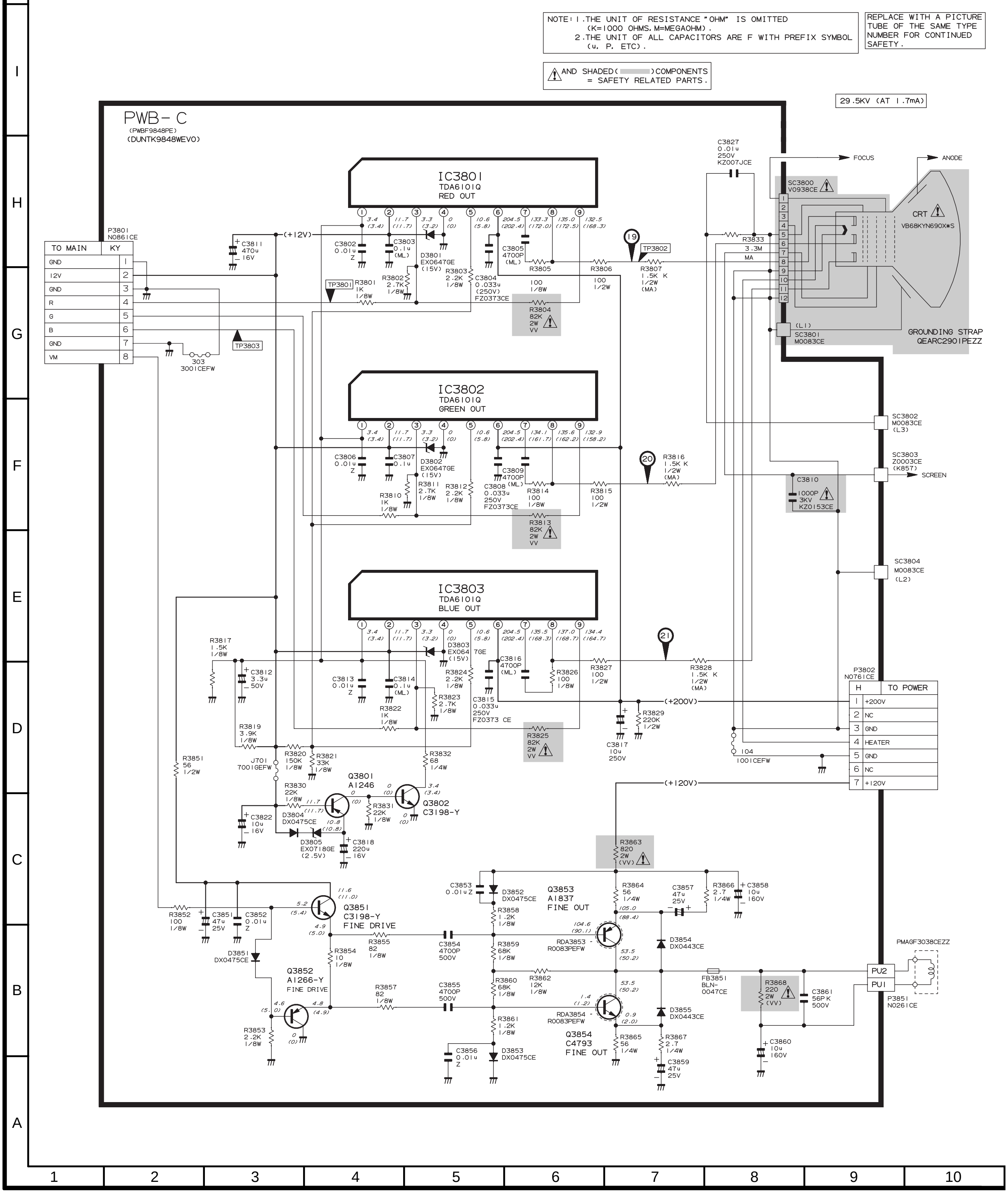
	SAW SW	MODE 1	MODE 2
M/N	GND	GND	GND
B/G	OPEN	OPEN	OPEN
I	OPEN	OPEN	GND
D/K	OPEN	GND	OPEN

CRT UNIT
CRT电路装置

NOTE: 1.THE UNIT OF RESISTANCE "OHM" IS OMITTED (K=1000 OHMS, M=MEGAOHM).
2.THE UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL (u, P, ETC).

REPLACE WITH A PICTURE TUBE OF THE SAME TYPE NUMBER FOR CONTINUED SAFETY.

⚠ AND SHADED(▨)COMPONENTS = SAFETY RELATED PARTS.


J
I
H
G
F
E
D
C
B
A
1
2
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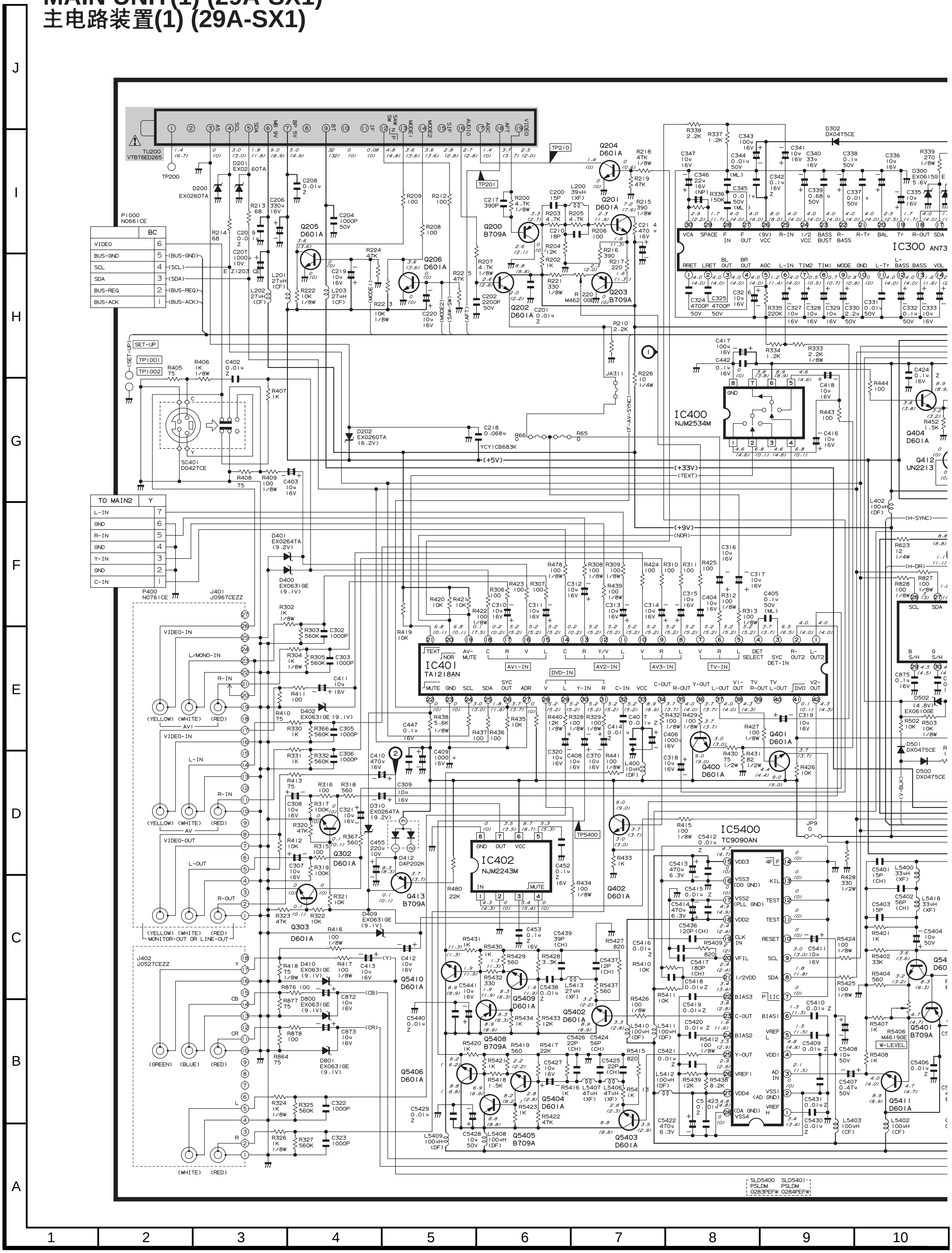
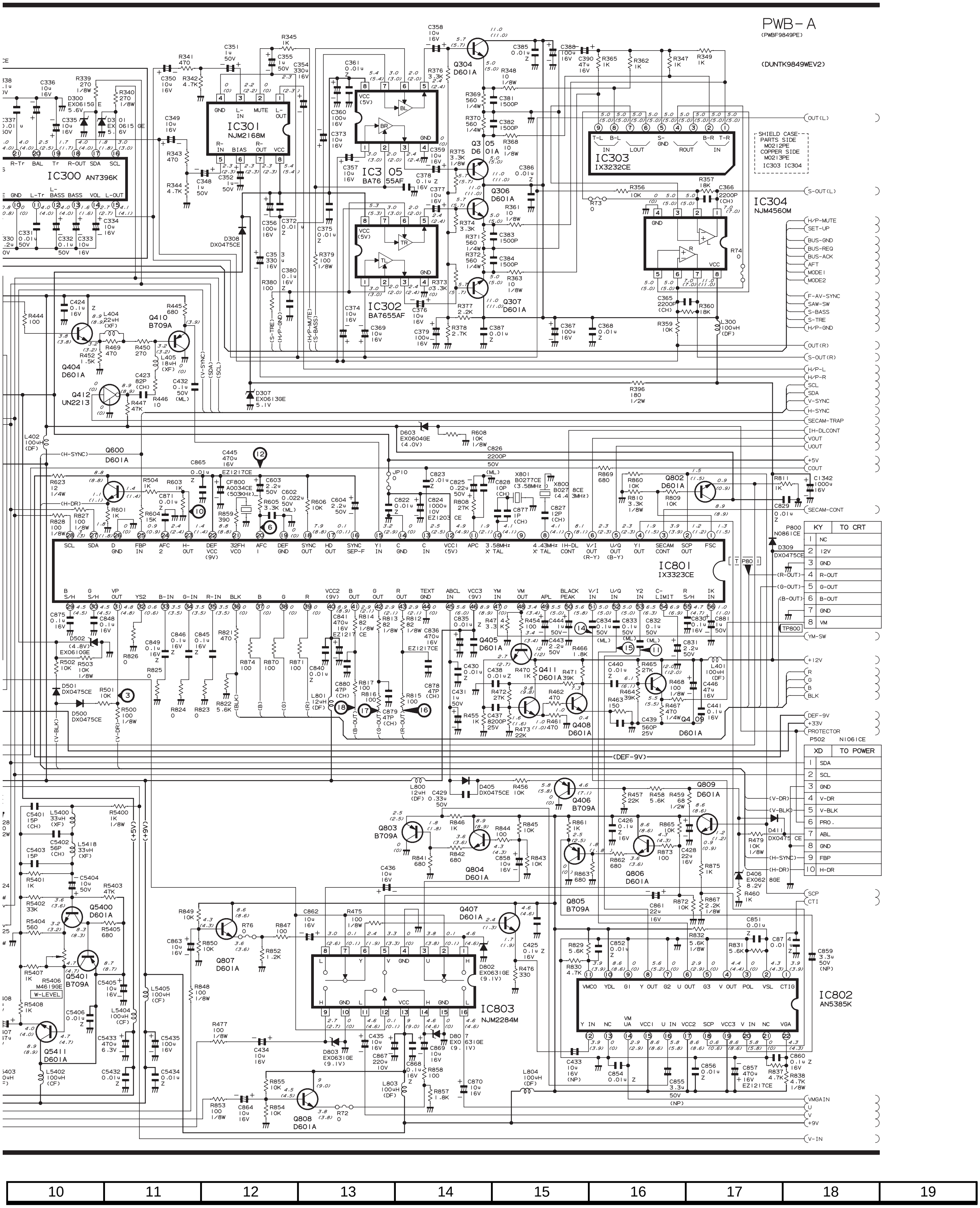
4
5
6
7
8
9
10
29.5KV (AT 1.7mA)
PWB-C
(PWBF9848PE)
(DUNTK9848WEV0)
IC3801
TDA6101Q
RED OUT
IC3802
TDA6101Q
GREEN OUT
IC3803
TDA6101Q
BLUE OUT
P3801
N0861CE
TO MAIN
KY
GND 1
12V 2
GND 3
R 4
G 5
B 6
GND 7
VM 8
C3811 470u 16V
(+12V)
C3802 0.01u Z
C3803 0.1u (ML)
D3801 EX0647GE (15V)
R3801 1K 1/8W
R3802 2.7K 1/8W
R3803 2.2K 1/8W
C3804 0.033u (250V) FZ0373CE
C3805 4700P (ML)
R3805 100 1/8W
R3806 100 1/2W
R3807 1.5K K 1/2W (MA)
R3804 82K 2W VV ⚠
TP3801
TP3802
TP3803
303 3001CEFW
19
20
21
C3827 0.01u 250V KZ007JCE
FOCUS
ANODE
SC3800 V0938CE ⚠
CRT ⚠ VB68KYN690X*S
R3833 3.3M MA
(L1)
SC3801 M0083CE
GROUNDING STRAP QEARC2901PEZZ
C3806 0.01u Z
C3807 0.1u
D3802 EX0647GE (15V)
R3810 1K 1/8W
R3811 2.7K 1/8W
R3812 2.2K 1/8W
C3808 0.033u 250V FZ0373CE
C3809 4700P (ML)
R3814 100 1/8W
R3815 100 1/2W
R3816 1.5K K 1/2W (MA)
R3813 82K 2W VV ⚠
SC3802 M0083CE (L3)
SC3803 Z0003CE (K857)
SCREEN
C3810 1000P 3KV KZ0153CE
SC3804 M0083CE (L2)
R3817 1.5K 1/8W
C3812 3.3u 50V
C3813 0.01u Z
C3814 0.1u (ML)
D3803 EX064 7GE (15V)
R3822 1K 1/8W
R3823 2.7K 1/8W
R3824 2.2K 1/8W
C3815 0.033u 250V FZ0373 CE
C3816 4700P (ML)
R3826 100 1/8W
R3827 100 1/2W
R3828 1.5K K 1/2W (MA)
R3825 82K 2W VV ⚠
(+200V)
C3817 10u 250V
R3829 220K 1/2W
104 1001CEFW
P3802 N0761CE
H
TO POWER
1 +200V
2 NC
3 GND
4 HEATER
5 GND
6 NC
7 +120V
R3819 3.9K 1/8W
R3820 150K 1/8W
R3821 33K 1/8W
J701 7001GEFW
R3832 68 1/4W
R3851 56 1/2W
Q3801 A1246
Q3802 C3198-Y
R3830 22K 1/8W
R3831 22K 1/8W
C3822 10u 16V
D3804 DX0475CE
D3805 EX0718GE (2.5V)
C3818 220u 16V
(+120V)
R3863 820 2W (VV) ⚠
C3853 0.01u Z
D3852 DX0475CE
Q3853 A1837 FINE OUT
R3864 56 1/4W
C3857 47u 25V
R3866 2.7 1/4W
C3858 10u 160V
R3858 1.2K 1/8W
Q3851 C3198-Y FINE DRIVE
R3852 100 1/8W
C3851 47u 25V
C3852 0.01u Z
R3855 82 1/8W
C3854 4700P 500V
R3859 68K 1/8W
RDA3853 R0083PEFW
D3854 DX0443CE
D3851 DX0475CE
R3854 10 1/8W
Q3852 A1266-Y FINE DRIVE
R3857 82 1/8W
C3855 4700P 500V
R3860 68K 1/8W
R3862 12K 1/8W
FB3851 BLN-0047CE
R3868 220 2W (VV) ⚠
C3861 56P K 500V
PU2
PU1
P3851 N0261CE
PMAGF3038CEZZ
RDA3854 R0083PEFW
D3855 DX0443CE
R3861 1.2K 1/8W
R3853 2.2K 1/8W
C3856 0.01u Z
D3853 DX0475CE
Q3854 C4793 FINE OUT
R3865 56 1/4W
R3867 2.7 1/4W
C3859 47u 25V
C3860 10u 160V

MAIN UNIT(1) (29A-SX1)
主电路装置(1) (29A-SX1)


J
I
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
TU200
VTBT6ED265
TP200
TP201
TP210
P1000
N0661CE
BC
VIDEO
BUS-GND
SCL
SDA
BUS-REQ
BUS-ACK
SET-UP
TP1001
TP1002
SC401
D0427CE
TO MAIN2
L-IN
GND
R-IN
Y-IN
C-IN
P400
N0761CE
J401
J0967CEZZ
J402
J0527CEZZ
VIDEO-IN
L/MONO-IN
AV1
AV
VIDEO-OUT
L-OUT
R-OUT
(YELLOW)
(WHITE)
(RED)
(GREEN)
(BLUE)
MONITOR-OUT OR LINE-OUT
IC300 AN73
IC400
NJM2534M
IC401
TA1218AN
IC402
NJM2243M
IC5400
TC9090AN
Q200 B709A
Q201 D601A
Q202 D601A
Q203 B709A
Q204 D601A
Q205 D601A
Q206 D601A
Q302 D601A
Q303 D601A
Q400 D601A
Q401 D601A
Q402 D601A
Q404 D601A
Q412 UN2213
Q413 B709A
Q5401 B709A
Q5402 D601A
Q5403 D601A
Q5404 D601A
Q5405 B709A
Q5406 D601A
Q5408 B709A
Q5409 D601A
Q5410 D601A
Q5411 D601A
(+5V)
(+33V)
(TEXT)
(+9V)
(NOR)
(H-SYNC)
(H-DR)
(V-BLK)
(F-AV-SYNC)
YCY1CB683K
TP5400
SLD5400 PSLDM 0283PEFW
SLD5401 PSLDM 0284PEFW

⚠ AND SHADED (▨) COMPONENTS = SAFETY RELATED PARTS.

NOTE: 1. THE UNIT OF RESISTANCE "OHM" IS OMITTED (K=1000 OHMS, M=MEGAOHM).
2. THE UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL (u, P, ETC).


PWB-A
(PWBF9849PE)
(DUNTK9849WEV2)
IC300 AN7396K
IC301 NJM2168M
IC302 BA7655AF
IC305 BA7655AF
IC303 IX3232CE
IC304 NJM4560M
IC801 IX3323CE
IC802 AN5385K
IC803 NJM2284M
SHIELD CASE-PARTS SIDE M0212PE COPPER SIDE M0213PE IC303 IC304
P800 N086ICE
P502 N106ICE
KY TO CRT
XD TO POWER
OUT(L)
S-OUT(L)
H/P-MUTE
SET-UP
BUS-GND
BUS-REQ
BUS-ACK
AFT
MODE1
MODE2
F-AV-SYNC
SAW-SW
S-BASS
S-TRE
H/P-GND
OUT(R)
S-OUT(R)
H/P-L
H/P-R
SCL
SDA
V-SYNC
H-SYNC
SECAM-TRAP
IH-DLCONT
VOUT
UOUT
+5V
COUT
SECAM-CONT
YM-SW
+12V
R
G
B
BLK
DEF-9V
+33V
PROTECTOR
SCP
CTI
VMGAIN
U
V
+9V
V-IN
X801 B0277CE (3.58MHz)
X800 B027 8CE (4.43MHz)
CF800 A0034CE (503KHz)
10
11
12
13
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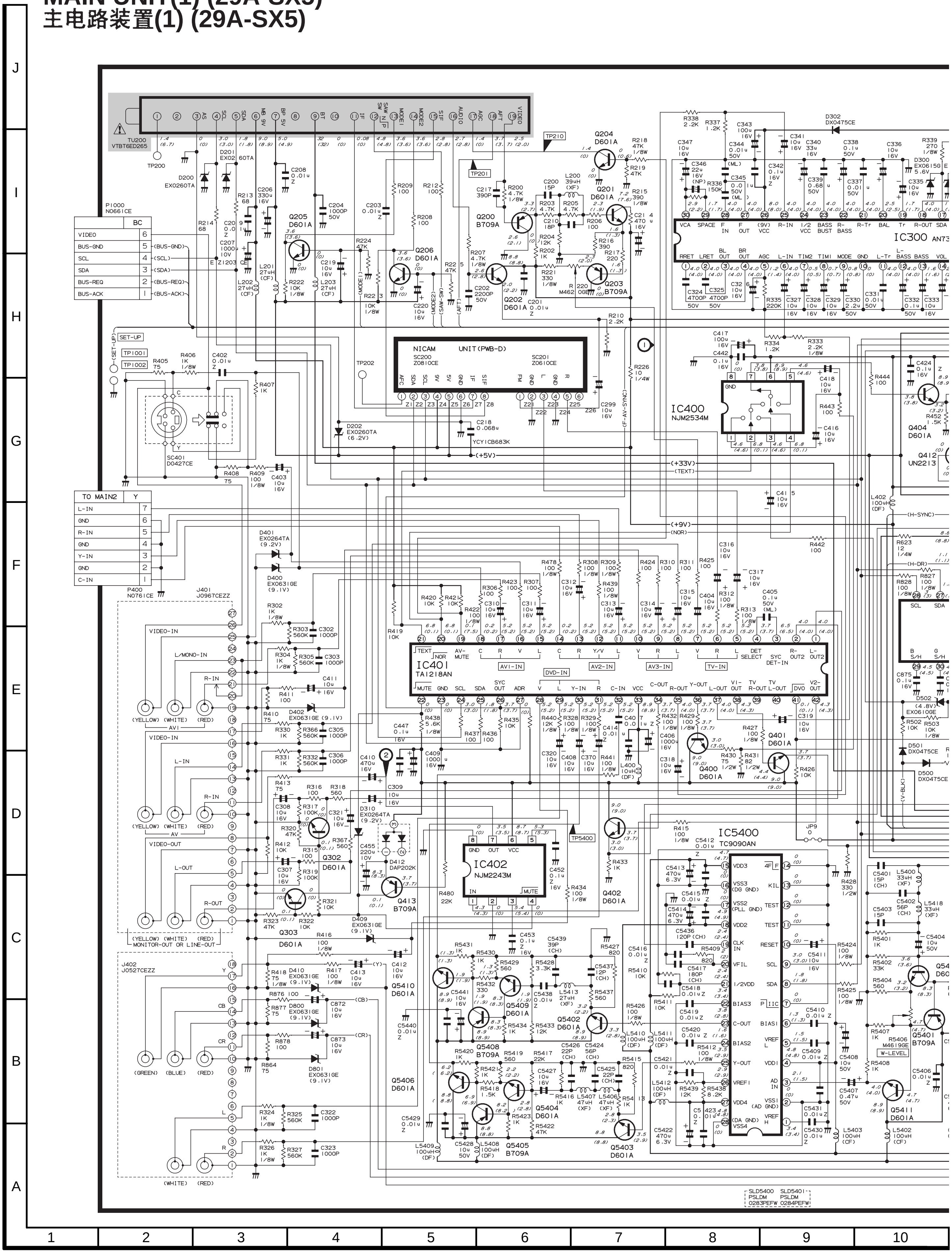
15
16
17
18
19

MAIN UNIT(1) (29A-SX5)
主电路装置(1) (29A-SX5)


TU200
VTBT6ED265
TP200
TP201
TP210
TP202
TP1001
TP1002
TP5400
P1000
N0661CE
BC
VIDEO
BUS-GND
SCL
SDA
BUS-REQ
BUS-ACK
SET-UP
SC401
D0427CE
TO MAIN2
Y
L-IN
GND
R-IN
Y-IN
C-IN
P400
N0761CE
J401
J0967CEZZ
J402
J0527CEZZ
VIDEO-IN
L/MONO-IN
R-IN
VIDEO-OUT
L-OUT
R-OUT
(YELLOW)
(WHITE)
(RED)
(GREEN)
(BLUE)
AV1
AV
MONITOR-OUT OR LINE-OUT
NICAM UNIT(PWB-D)
SC200
Z0810CE
SC201
Z0610CE
IC300
AN73
IC400
NJM2534M
IC401
TA1218AN
IC402
NJM2243M
IC5400
TC9090AN
Q200 B709A
Q201 D601A
Q202 D601A
Q203 B709A
Q204 D601A
Q205 D601A
Q206 D601A
Q302 D601A
Q303 D601A
Q400 D601A
Q401 D601A
Q402 D601A
Q404 D601A
Q412 UN2213
Q413 B709A
Q5401 B709A
Q5402 D601A
Q5403 D601A
Q5404 D601A
Q5405 B709A
Q5406 D601A
Q5408 B709A
Q5409 D601A
Q5410 D601A
Q5411 D601A
D200 EX0260TA
D201 EX02 60TA
D202 EX0260TA (6.2V)
D300 EX0615G 5.6V
D302 DX0475CE
D400 EX0631GE (9.1V)
D401 EX0264TA (9.2V)
D402 EX0631GE (9.1V)
D409 EX0631GE (9.1V)
D410 EX0631GE (9.1V)
D412 DAP202K
D500 DX0475CE
D501 DX0475CE
D502 EX0610GE
D800 EX0631GE (9.1V)
D801 EX0631GE (9.1V)
(+5V)
(+33V)
(TEXT)
(+9V)
(NOR)
(H-SYNC)
(H-DR)
(F-AV-SYNC)
(V-BLK)
W-LEVEL
JP9
SLD5400 SLD5401
PSLDM PSLDM
0283PEFW 0284PEFW
J
I
H
G
F
E
D
C
B
A
1
2
3
4
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6
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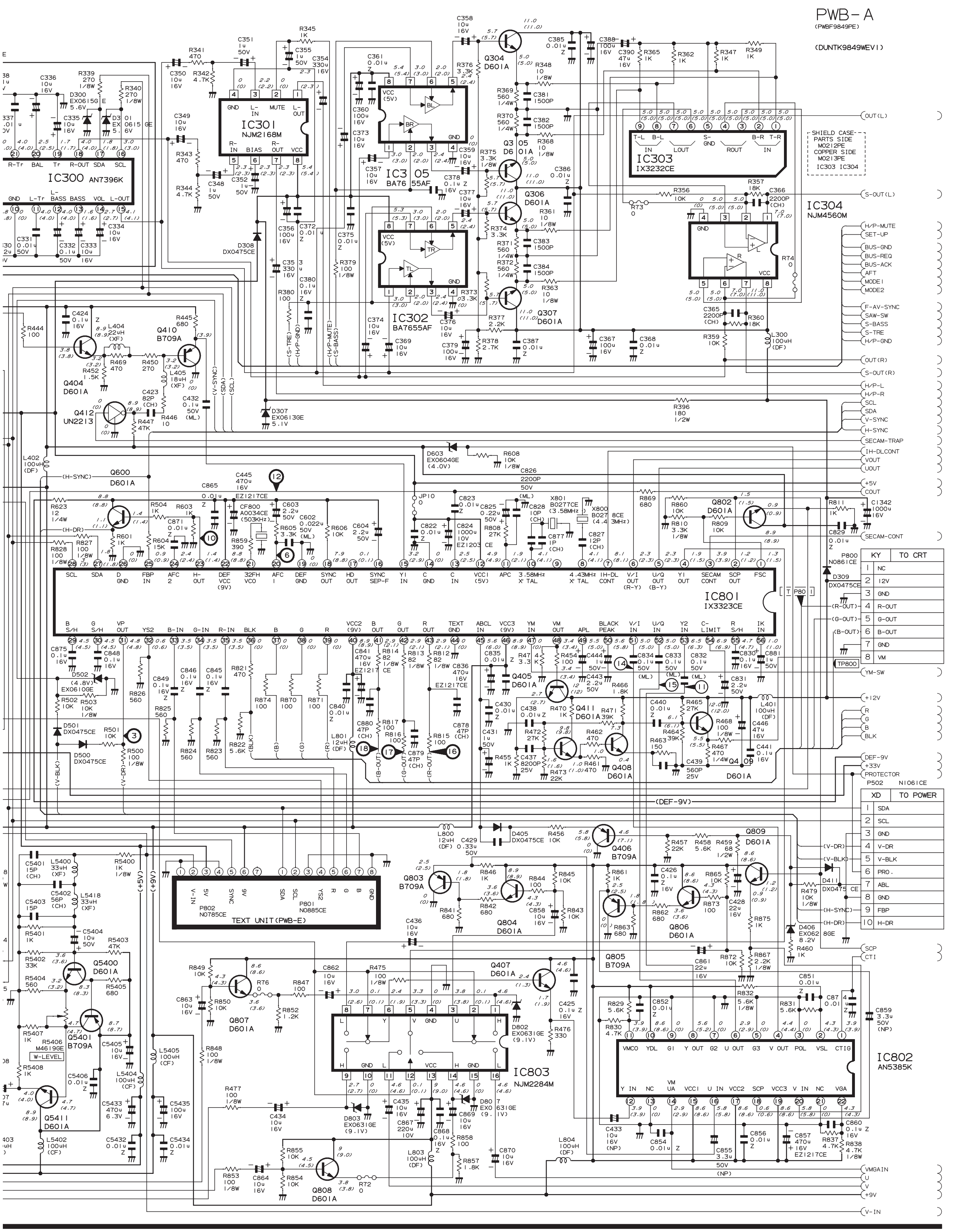
8
9
10

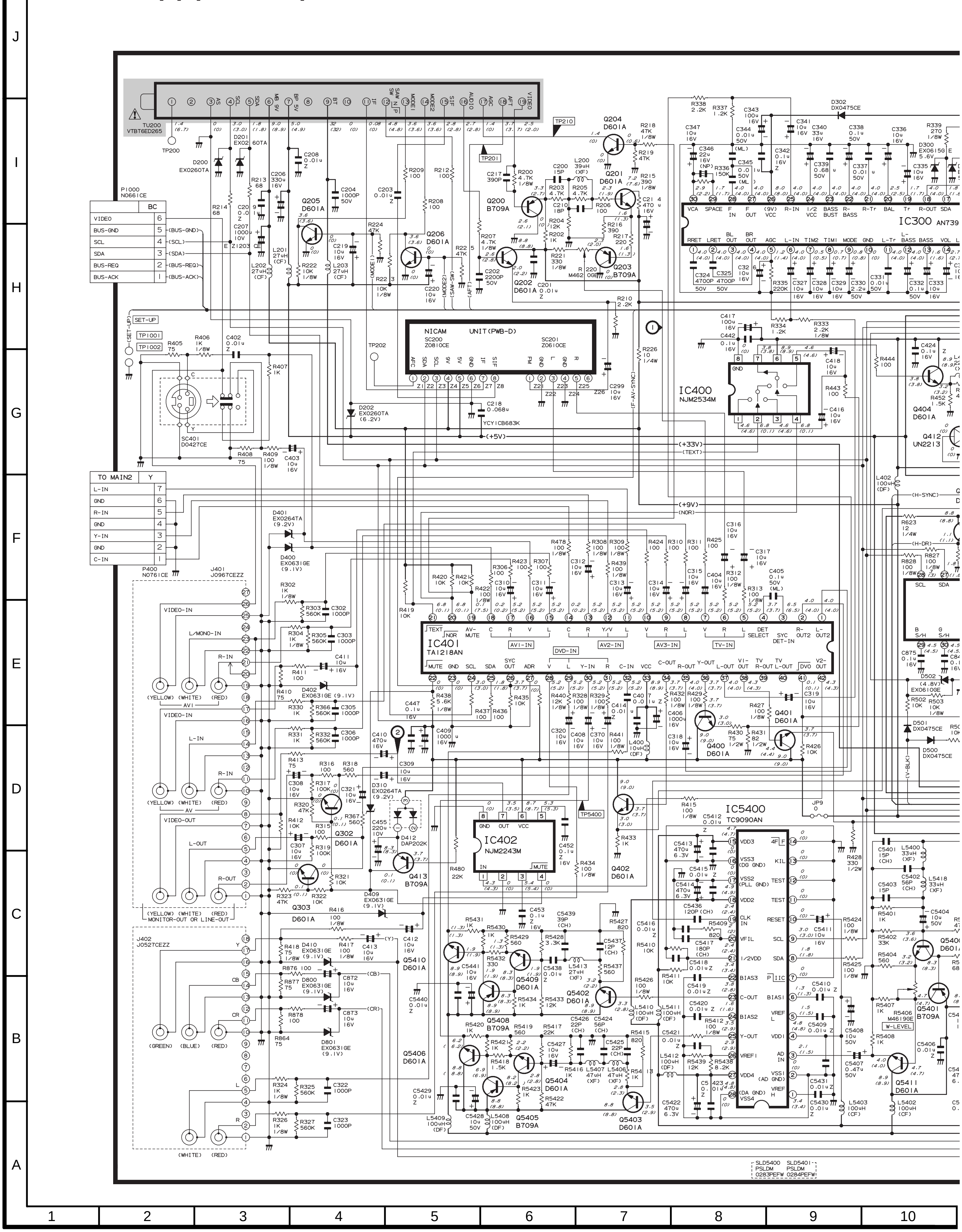
⚠ AND SHADED(▨)COMPONENTS
= SAFETY RELATED PARTS.

NOTE: 1.THE UNIT OF RESISTANCE "OHM" IS OMITTED
(K=1000 OHMS, M=MEGAOHM).
2.THE UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL
(u, P, ETC).


PWB-A
(PWBF9849PE)
(DUNTK9849WEV1)
IC300 AN7396K
IC301 NJM2168M
IC305 BA7655AF
IC302 BA7655AF
IC303 IX3232CE
IC304 NJM4560M
IC801 IX3323CE
IC802 AN5385K
IC803 NJM2284M
SHIELD CASE-PARTS SIDE M0212PE
COPPER SIDE M0213PE
IC303 IC304
P800 N0861CE
KY TO CRT
1 NC
2 12V
3 GND
4 R-OUT
5 G-OUT
6 B-OUT
7 GND
8 VM
P502 N0106ICE
XD TO POWER
1 SDA
2 SCL
3 GND
4 V-DR
5 V-BLK
6 PRO.
7 ABL
8 GND
9 FBP
10 H-DR
P802 N0785CE
P801 N0885CE
TEXT UNIT(PWB-E)
(DEF-9V)
OUT(L)
S-OUT(L)
H/P-MUTE
SET-UP
BUS-GND
BUS-REQ
BUS-ACK
AFT
MODE1
MODE2
F-AV-SYNC
SAW-SW
S-BASS
S-TRE
H/P-GND
OUT(R)
S-OUT(R)
H/P-L
H/P-R
SCL
SDA
V-SYNC
H-SYNC
SECAM-TRAP
1H-DLCONT
VOUT
UOUT
+5V
COUT
SECAM-CONT
YM-SW
+12V
R
G
B
BLK
DEF-9V
+33V
PROTECTOR
SCP
CTI
VMGAIN
U
V
+9V
V-IN

10	11	12	13	14	15	16	17	18	19

MAIN UNIT(1) (29A-SX8)
主电路装置(1) (29A-SX8)


J
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F
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D
C
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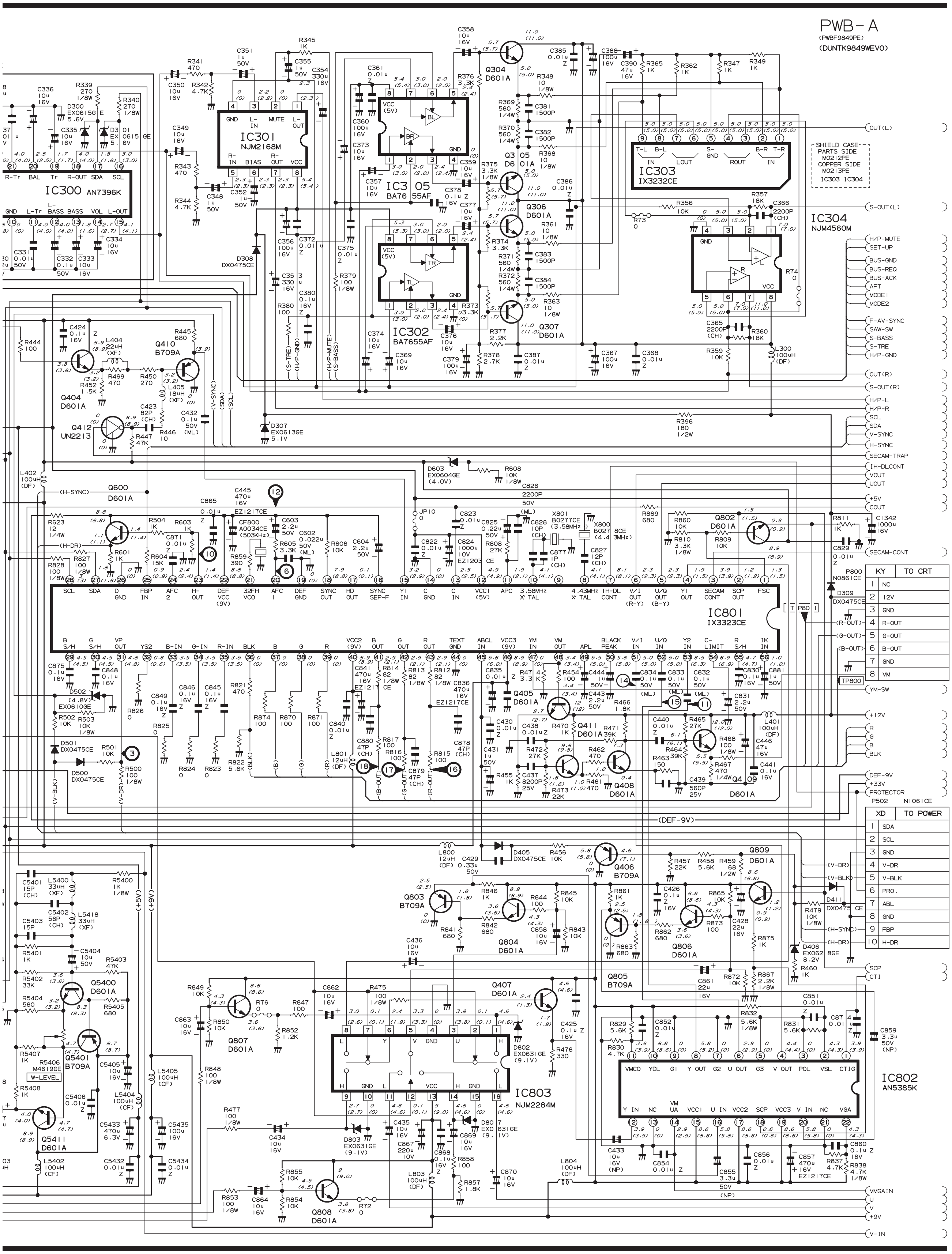
3
4
5
6
7
8
9
10
TU200
VTBT6ED265
TP200
D200
EX0260TA
D201
EX02 60TA
P1000
N0661CE
BC
VIDEO
BUS-GND
SCL
SDA
BUS-REQ
BUS-ACK
Q205
D601A
Q206
D601A
Q200
B709A
Q202
D601A
Q201
D601A
Q204
D601A
Q203
B709A
TP201
TP210
SET-UP
TP1001
TP1002
NICAM UNIT(PWB-D)
SC200
Z0810CE
SC201
Z0610CE
TP202
D202
EX0260TA
(6.2V)
YCY1CB683K
(+5V)
(+33V)
(TEXT)
(+9V)
(NOR)
SC401
D0427CE
TO MAIN2
Y
L-IN
GND
R-IN
Y-IN
C-IN
P400
N0761CE
J401
J0967CEZZ
D401
EX0264TA
(9.2V)
D400
EX0631GE
(9.1V)
VIDEO-IN
L/MONO-IN
R-IN
(YELLOW)
(WHITE)
(RED)
AV1
VIDEO-IN
L-IN
R-IN
AV
VIDEO-OUT
L-OUT
R-OUT
(YELLOW) (WHITE) (RED)
MONITOR-OUT OR LINE-OUT
D402
EX0631GE (9.1V)
Q302
D601A
Q303
D601A
D409
EX0631GE
(9.1V)
D310
EX0264TA
(9.2V)
D412
DAP202K
Q413
B709A
J402
J0527CEZZ
CB
CR
(GREEN)
(BLUE)
(RED)
D410
EX0631GE
(9.1V)
D800
EX0631GE
(9.1V)
D801
EX0631GE
(9.1V)
(WHITE)
(RED)
IC401
TA1218AN
TEXT
NOR
AV-MUTE
AV1-IN
DVD-IN
AV2-IN
AV3-IN
TV-IN
DET SELECT
SYC DET-IN
R-OUT2
L-OUT2
MUTE
SYC OUT
ADR
Y-IN
C-IN
VCC
C-OUT
R-OUT
Y-OUT
L-OUT
V1-OUT
TV R-OUT
TV L-OUT
DVO
V2-OUT
IC402
NJM2243M
IN
MUTE
TP5400
Q400
D601A
Q401
D601A
Q402
D601A
IC400
NJM2534M
IC300 AN739
VCA
SPACE
F IN
F OUT
(9V) VCC
R-IN
1/2 VCC
BASS BUST
R-BASS
R-Tr
BAL
Tr
R-OUT
SDA
RRET
LRET
BL OUT
BR OUT
AGC
L-IN
TIM2
TIM1
MODE
GND
L-Tr
L-BASS
BASS
VOL
D302
DX0475CE
D300
EX0615G
5.6V
Q404
D601A
Q412
UN2213
L402
(H-SYNC)
(H-DR)
(F-AV-SYNC)
IC5400
TC9090AN
VDD3
VSS3 (DG GND)
VSS2 (PLL GND)
VDD2
CLK IN
VFIL
1/2VDD
BIAS3
C-OUT
BIAS2
Y-OUT
VREF1
VDD4
VSS4 (DA GND)
4FF
KIL
TEST
RESET
SCL
SDA
IIC
BIAS1
VREF L
VDD1
AD IN
VSS1 (AD GND)
VREF H
Q5406
D601A
Q5407
Q5408
B709A
Q5409
D601A
Q5402
D601A
Q5404
D601A
Q5405
B709A
Q5403
D601A
Q5400
D601A
Q5401
B709A
Q5411
D601A
D502
EX0610GE
(4.8V)
D501
DX0475CE
D500
DX0475CE
(V-BLK)
JP9
W-LEVEL
SLD5400 SLD5401
PSLDM PSLDM
0283PEFW 0284PEFW

⚠ AND SHADED (▨) COMPONENTS
= SAFETY RELATED PARTS.

NOTE: 1.THE UNIT OF RESISTANCE "OHM" IS OMITTED
(K=1000 OHMS, M=MEGAOHM).
2.THE UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL
(u, P, ETC).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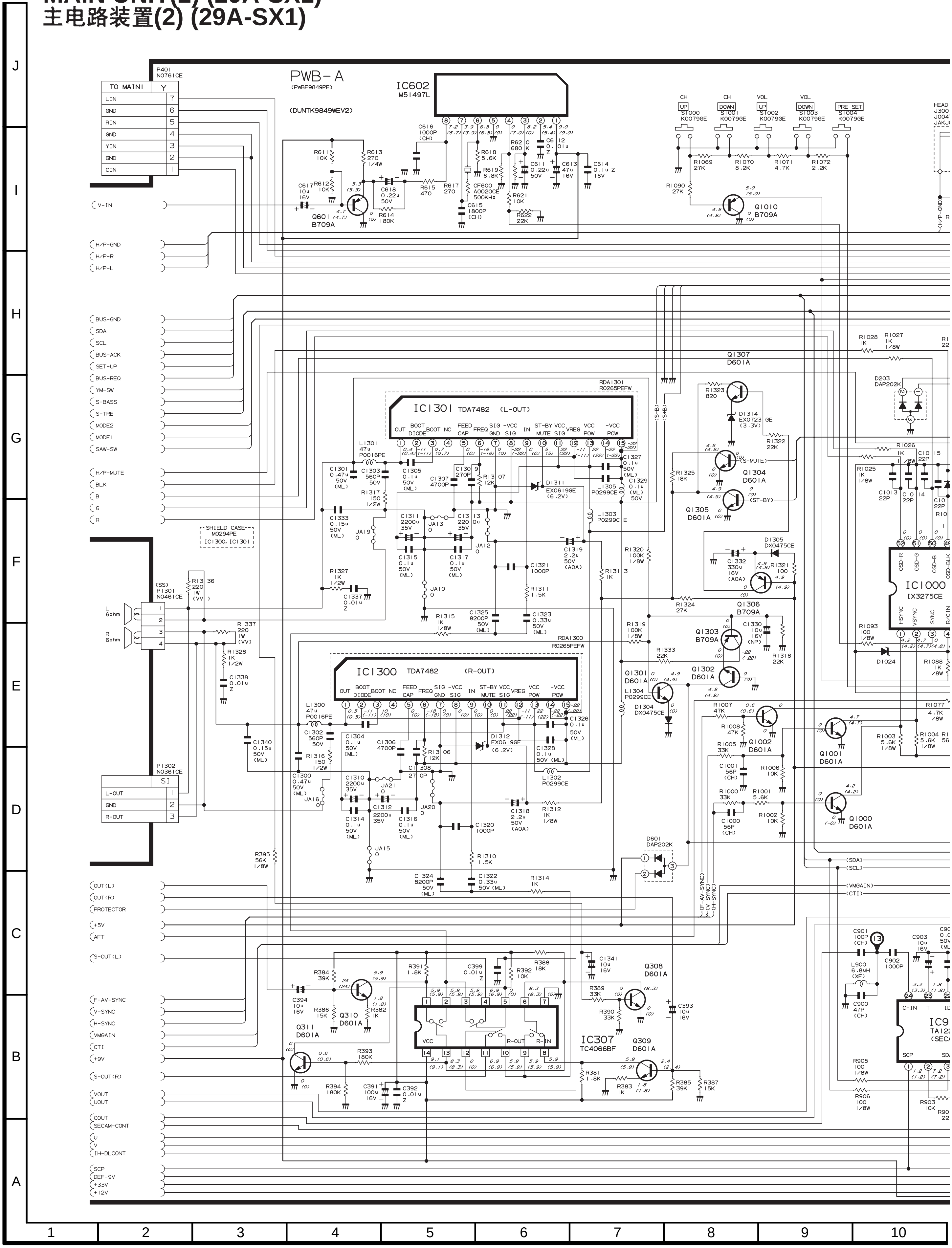
(PWBF9849PE)
(DUNTK9849WEV0)
IC300 AN7396K
IC301 NJM2168M
IC305 BA7655AF
IC302 BA7655AF
IC303 IX3232CE
IC304 NJM4560M
IC801 IX3323CE
IC802 AN5385K
IC803 NJM2284M
SHIELD CASE-PARTS SIDE M0212PE
COPPER SIDE M0213PE
IC303 IC304
Q304 D601A
Q305 D601A
Q306 D601A
Q307 D601A
Q410 B709A
Q404 D601A
Q412 UN2213
Q600 D601A
Q802 D601A
Q405 D601A
Q411 D601A
Q408 D601A
Q409 D601A
Q406 B709A
Q809 D601A
Q803 B709A
Q804 D601A
Q805 B709A
Q806 D601A
Q807 D601A
Q407 D601A
Q808 D601A
Q5400 D601A
Q5401 B709A
Q5411 D601A
X801 B0277CE (3.58MHz)
X800 B0278CE (4.43MHz)
CF800 A0034CE (503KHz)
P800 N0861CE
KY | TO CRT
1 NC
2 12V
3 GND
4 R-OUT
5 G-OUT
6 B-OUT
7 GND
8 VM
P502 N1061CE
XD | TO POWER
1 SDA
2 SCL
3 GND
4 V-DR
5 V-BLK
6 PRO.
7 ABL
8 GND
9 FBP
10 H-DR
OUT(L)
S-OUT(L)
H/P-MUTE
SET-UP
BUS-GND
BUS-REQ
BUS-ACK
AFT
MODE1
MODE2
F-AV-SYNC
SAW-SW
S-BASS
S-TRE
H/P-GND
OUT(R)
S-OUT(R)
H/P-L
H/P-R
SCL
SDA
V-SYNC
H-SYNC
SECAM-TRAP
IH-DLCONT
VOUT
UOUT
+5V
COUT
SECAM-CONT
YM-SW
+12V
R
G
B
BLK
DEF-9V
+33V
PROTECTOR
SCP
CTI
VMGAIN
U
V
+9V
V-IN

10	11	12	13	14	15	16	17	18	19

MAIN UNIT(2) (29A-SX1)
主电路装置(2) (29A-SX1)


J
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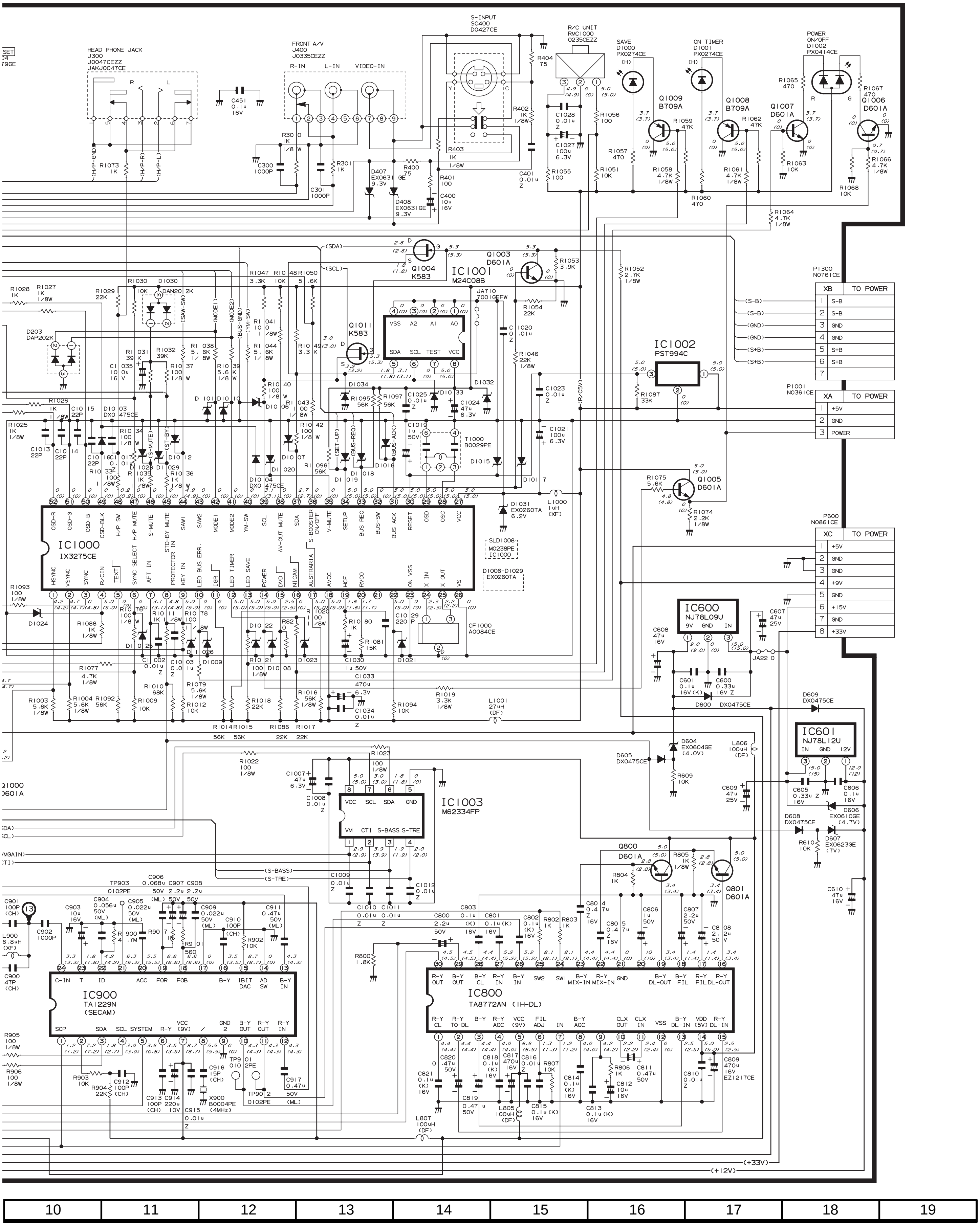
PWB-A
(PWBF9849PE)
(DUNTK9849WEV2)
P401
N0761CE
TO MAIN1
Y
LIN 7
GND 6
RIN 5
GND 4
YIN 3
GND 2
CIN 1
IC602
M51497L
Q601
B709A
R611 10K
R612 10K
R613 270 1/4W
C617 10u 16V
C618 0.22u 50V
R614 180K
R615 470
R617 270
C616 1000P (CH)
R618 5.6K
R619 6.8K
CF600 A0020CE 500KHz
C615 1800P (CH)
R620 680
R621 10K
R622 22K
C611 0.22u 50V
C612 0.01u Z
C613 47u 16V
C614 0.1u Z 16V
V-IN
H/P-GND
H/P-R
H/P-L
BUS-GND
SDA
SCL
BUS-ACK
SET-UP
BUS-REQ
YM-SW
S-BASS
S-TRE
MODE2
MODE1
SAW-SW
H/P-MUTE
BLK
B
G
R
CH UP S1000 K0079GE
CH DOWN S1001 K0079GE
VOL UP S1002 K0079GE
VOL DOWN S1003 K0079GE
PRE SET S1004 K0079GE
R1069 27K
R1070 8.2K
R1071 4.7K
R1072 2.2K
R1090 27K
Q1010 B709A
HEAD
J300
J004
RDA1301
R0265PEFW
IC1301 TDA7482 (L-OUT)
OUT
BOOT DIODE
BOOT
NC
FEED CAP
FREQ
SIG GND
-VCC SIG
IN
ST-BY MUTE
VCC SIG
VREG
VCC POW
-VCC POW
L1301 47u P0016PE
C1301 0.47u 50V (ML)
C1303 560P 50V
C1305 0.1u 50V (ML)
C1307 4700P
C1309 270P
R1307 12K
D1311 EX0619GE (6.2V)
C1327 0.1u 50V (ML)
C1329 0.1u (ML) 50V
L1305 P0299CE
R1317 150 1/2W
C1333 0.15u 50V (ML)
C1311 2200u 35V
C1313 2200u 35V
JA13
JA19
JA12
L1303 P0299CE
SHIELD CASE M0294PE IC1300, IC1301
C1315 0.1u 50V (ML)
C1317 0.1u 50V (ML)
C1319 2.2u 50V (AOA)
C1321 1000P
R1320 100K 1/8W
R1313 1K
R1327 1K 1/2W
C1337 0.01u Z
JA10
R1311 1.5K
R1315 1K 1/8W
C1325 8200P 50V (ML)
C1323 0.33u 50V (ML)
(SS) P1301 N0461CE
R1336 220 1W (VV)
L 6ohm
R 6ohm
R1337 220 1W (VV)
R1328 1K 1/2W
C1338 0.01u Z
RDA1300
R0265PEFW
IC1300 TDA7482 (R-OUT)
L1300 47u P0016PE
C1302 560P 50V
C1304 0.1u 50V (ML)
C1306 4700P
R1306 12K
C1308 270P
D1312 EX0619GE (6.2V)
C1326 0.1u 50V (ML)
C1328 0.1u 50V (ML)
L1302 P0299CE
C1340 0.15u 50V (ML)
R1316 150 1/2W
C1300 0.47u 50V (ML)
C1310 2200u 35V
C1312 2200u 35V
JA16
JA21
JA20
C1314 0.1u 50V (ML)
C1316 0.1u 50V (ML)
C1318 2.2u 50V (AOA)
R1312 1K 1/8W
C1320 1000P
JA15
R1310 1.5K
C1324 8200P 50V (ML)
C1322 0.33u 50V (ML)
R1314 1K
P1302 N0361CE
SI
L-OUT 1
GND 2
R-OUT 3
R395 56K 1/8W
Q1307 D601A
R1323 820
D1314 EX0723 GE (3.3V)
R1322 22K
Q1304 D601A
R1325 18K
Q1305 D601A
(S-MUTE)
(ST-BY)
D1305 DX0475CE
C1332 330u 16V (AOA)
R1321 100
Q1306 B709A
R1324 27K
R1319 100K 1/8W
Q1303 B709A
C1330 10u 16V (NP)
R1333 22K
R1318 22K
Q1301 D601A
Q1302 D601A
L1304 P0299CE
D1304 DX0475CE
(S-B)
(S+B)
R1007 47K
R1008 47K
R1005 33K
Q1002 D601A
C1001 56P (CH)
R1006 10K
R1000 33K
R1001 5.6K
C1000 56P (CH)
R1002 10K
Q1001 D601A
Q1000 D601A
D601 DAP202K
R1028 1K
R1027 1K 1/8W
D203 DAP202K
R1026 1K 1/8W
R1025 1K 1/8W
C1013 22P
C1014 22P
C1015 22P
IC1000 IX3275CE
OSD-R
OSD-G
OSD-B
OSD-BLK
HSYNC
VSYNC
SYNC
R1093 100 1/8W
D1024
R1088 1K 1/8W
R1077 4.7K 1/8W
R1003 5.6K 1/8W
R1004 5.6K 1/8W
(SDA)
(SCL)
(VMGAIN)
(CTI)
(F-AV-SYNC)
(V-SYNC)
(H-SYNC)
OUT(L)
OUT(R)
PROTECTOR
+5V
AFT
S-OUT(L)
F-AV-SYNC
V-SYNC
H-SYNC
VMGAIN
CTI
+9V
S-OUT(R)
VOUT
UOUT
COUT
SECAM-CONT
U
V
IH-DLCONT
SCP
DEF-9V
+33V
+12V
R384 39K
R391 1.8K
C399 0.01u Z
R392 10K
R388 18K
C1341 10u 16V
Q308 D601A
C394 10u 16V
R386 15K
Q310 D601A
R382 1K
Q311 D601A
IC307 TC4066BF
VCC
R-OUT
R-IN
R389 33K
R390 33K
C393 10u 16V
Q309 D601A
R393 180K
R394 180K
C391 100u 16V
C392 0.01u Z
R381 1.8K
R383 1K
R385 39K
R387 15K
C901 100P (CH)
C903 10u 16V
C902 1000P
L900 6.8uH (XF)
C900 47P (CH)
C-IN
IC9
SCP
R905 100 1/8W
R906 100 1/8W
R903 10K

NOTE: 1. THE UNIT OF RESISTANCE "OHM" IS OMITTED
(K=1000 OHMS, M=MEGAOHM).
2. THE UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL
(u, P, ETC).

⚠ AND SHADED (▨) COMPONENTS
= SAFETY RELATED PARTS.

NOTE: ALL DIODES ARE "EX0260TA" UNLESS OTHERWISE SPECIFIED.


HEAD PHONE JACK J300 J0047CEZZ JAKJ0047CEZZ
FRONT A/V J400 J0335CEZZ
R-IN
L-IN
VIDEO-IN
S-INPUT SC400 D0427CE
R/C UNIT RMC1000 0235CEZZ
SAVE D1000 PX0274CE
ON TIMER D1001 PX0274CE
POWER ON/OFF D1002 PX0414CE
Q1009 B709A
Q1008 B709A
Q1007 D601A
Q1006 D601A
Q1004 K583
Q1003 D601A
Q1011 K583
IC1001 M24C08B
JA710 7001GEFW
IC1002 PST994C
P1300 N0761CE
XB TO POWER
S-B
S-B
GND
GND
S+B
S+B
P1001 N0361CE
XA TO POWER
+5V
GND
POWER
Q1005 D601A
P600 N0861CE
XC TO POWER
+5V
GND
GND
+9V
GND
+15V
GND
+33V
IC1000 IX3275CE
OSD-R
OSD-G
OSD-B
OSD-BLK
H/P SW
H/P MUTE
S-MUTE
STD-BY MUTE
SAW1
SAW2
MODE1
MODE2
YM-SW
SCL
AV-OUT MUTE
SDA
S-BOOSTER ON/OFF
V-MUTE
SETUP
BUS REQ
BUS-SW
BUS ACK
RESET
OSD
OSC
VCC
HSYNC
VSYNC
SYNC
R/CIN
TEXT
SYNC SELECT
AFT IN
PROTECTOR IN
STD-BY IN
KEY IN
LED BUS ERR.
IGR
LED TIMER
LED SAVE
POWER
DVD
NICAM
AUSTRARIA
AVCC
HCF
RVCO
ON VSS
X IN
X OUT
VS
SLD1008 M0238PE IC1000
D1006-D1029 EX0260TA
T1000 B0029PE
CF1000 A0084CE
D1031 EX0260TA 6.2V
L1000 1uH (XF)
IC600 NJ78L09U
9V GND IN
IC601 NJ78L12U
IN GND 12V
D604 EX0604GE (4.0V)
D605 DX0475CE
D606 EX0610GE (4.7V)
D607 EX0623GE (TV)
D608 DX0475CE
D609 DX0475CE
D600 DX0475CE
L806 100uH (DF)
IC1003 M62334FP
VCC SCL SDA GND
VM CTI S-BASS S-TRE
(S-BASS)
(S-TRE)
(SDA)
(SCL)
(VMGAIN)
(CTI)
Q800 D601A
Q801 D601A
IC800 TA8772AN (IH-DL)
R-Y OUT
B-Y OUT
B-Y CL
R-Y IN
B-Y IN
SW2
SW1
B-Y MIX-IN
R-Y MIX-IN
GND
B-Y DL-OUT
B-Y FIL
R-Y FIL
R-Y DL-OUT
R-Y CL
R-Y TO-DL
B-Y
R-Y AGC
VCC (9V)
FIL ADJ
IN
B-Y AGC
CLX OUT
CLX IN
VSS
B-Y DL-IN
VDD (5V)
R-Y DL-IN
IC900 TA1229N (SECAM)
C-IN
T
ID
ACC
FOR
FOB
B-Y
IBIT DAC
AD SW
B-Y IN
SCP
SDA
SCL
SYSTEM
R-Y
VCC (9V)
GND 2
B-Y OUT
R-Y OUT
R-Y IN
X900 B0004PE (4MHz)
TP903 0102PE
TP901 0102PE
TP902 0102PE
L807 100uH (DF)
L805 100uH (DF)
L1001 27uH (DF)
L900 6.8uH (XF)
(+33V)
(+12V)
10
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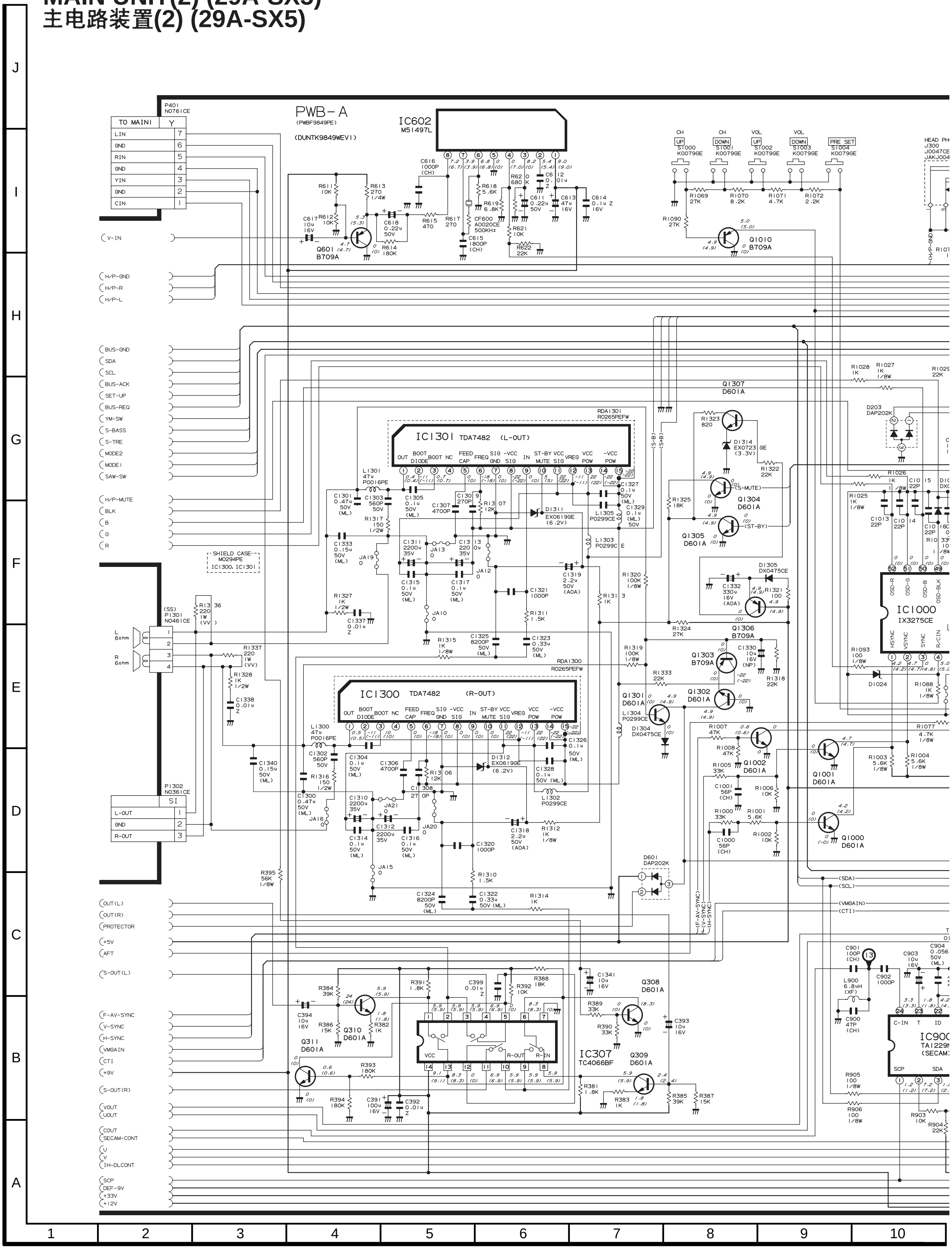
MAIN UNIT(2) (29A-SX5)
主电路装置(2) (29A-SX5)


J
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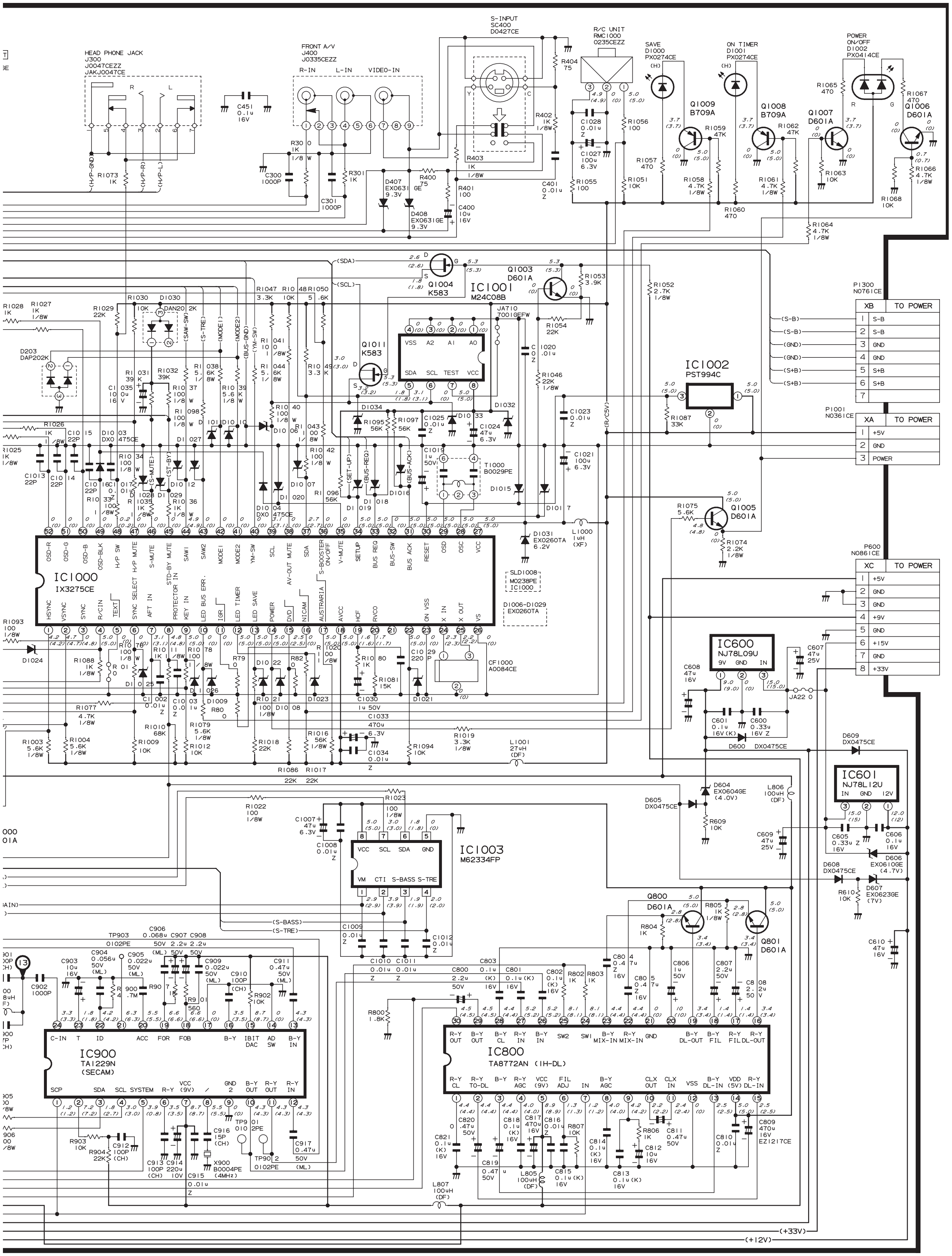
10
P401 N0761CE
TO MAIN1
Y
LIN 7
GND 6
RIN 5
GND 4
YIN 3
GND 2
CIN 1
PWB-A (PWBF9849PE)
(DUNTK9849WEV1)
IC602 M51497L
Q601 B709A
CF600 A0020CE 500KHz
CH UP S1000 K0079GE
CH DOWN S1001 K0079GE
VOL UP S1002 K0079GE
VOL DOWN S1003 K0079GE
PRE SET S1004 K0079GE
HEAD PH J300 J0047CE
Q1010 B709A
V-IN
H/P-GND
H/P-R
H/P-L
BUS-GND
SDA
SCL
BUS-ACK
SET-UP
BUS-REQ
YM-SW
S-BASS
S-TRE
MODE2
MODE1
SAW-SW
H/P-MUTE
BLK
B
G
R
RDA1301 R0265PEFW
IC1301 TDA7482 (L-OUT)
OUT BOOT DIODE BOOT NC FEED CAP FREQ SIG GND -VCC SIG IN ST-BY MUTE VCC SIG VREG VCC POW -VCC POW
D1311 EX0619GE (6.2V)
L1301 47u P0016PE
L1305 P0299CE
L1303 P0299CE
SHIELD CASE M0294PE IC1300, IC1301
Q1307 D601A
D1314 EX0723GE (3.3V)
Q1304 D601A
Q1305 D601A
D1305 DX0475CE
Q1306 B709A
Q1303 B709A
Q1301 D601A
Q1302 D601A
D1304 DX0475CE
L1304 P0299CE
D203 DAP202K
IC1000 IX3275CE
OSD-R OSD-G OSD-B OSD-BLK
HSYNC VSYNC SYNC R/CIN
D1024
(SS) P1301 N0461CE
L 6ohm
R 6ohm
RDA1300 R0265PEFW
IC1300 TDA7482 (R-OUT)
L1300 47u P0016PE
D1312 EX0619GE (6.2V)
L1302 P0299CE
P1302 N0361CE
SI
L-OUT 1
GND 2
R-OUT 3
Q1002 D601A
Q1001 D601A
Q1000 D601A
D601 DAP202K
(SDA)
(SCL)
(VMGAIN)
(CTI)
(F-AV-SYNC)
(V-SYNC)
(H-SYNC)
OUT(L)
OUT(R)
PROTECTOR
+5V
AFT
S-OUT(L)
F-AV-SYNC
V-SYNC
H-SYNC
VMGAIN
CTI
+9V
S-OUT(R)
VOUT
UOUT
COUT
SECAM-CONT
U
V
IH-DLCONT
SCP
DEF-9V
+33V
+12V
Q310 D601A
Q311 D601A
IC307 TC4066BF
VCC R-OUT R-IN
Q308 D601A
Q309 D601A
L900 6.8uH (XF)
IC900 TA1229N (SECAM)
C-IN T ID
SCP SDA

NOTE: 1.THE UNIT OF RESISTANCE "OHM" IS OMITTED
(K=1000 OHMS, M=MEGAOHM).
2.THE UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL
(u, P, ETC).

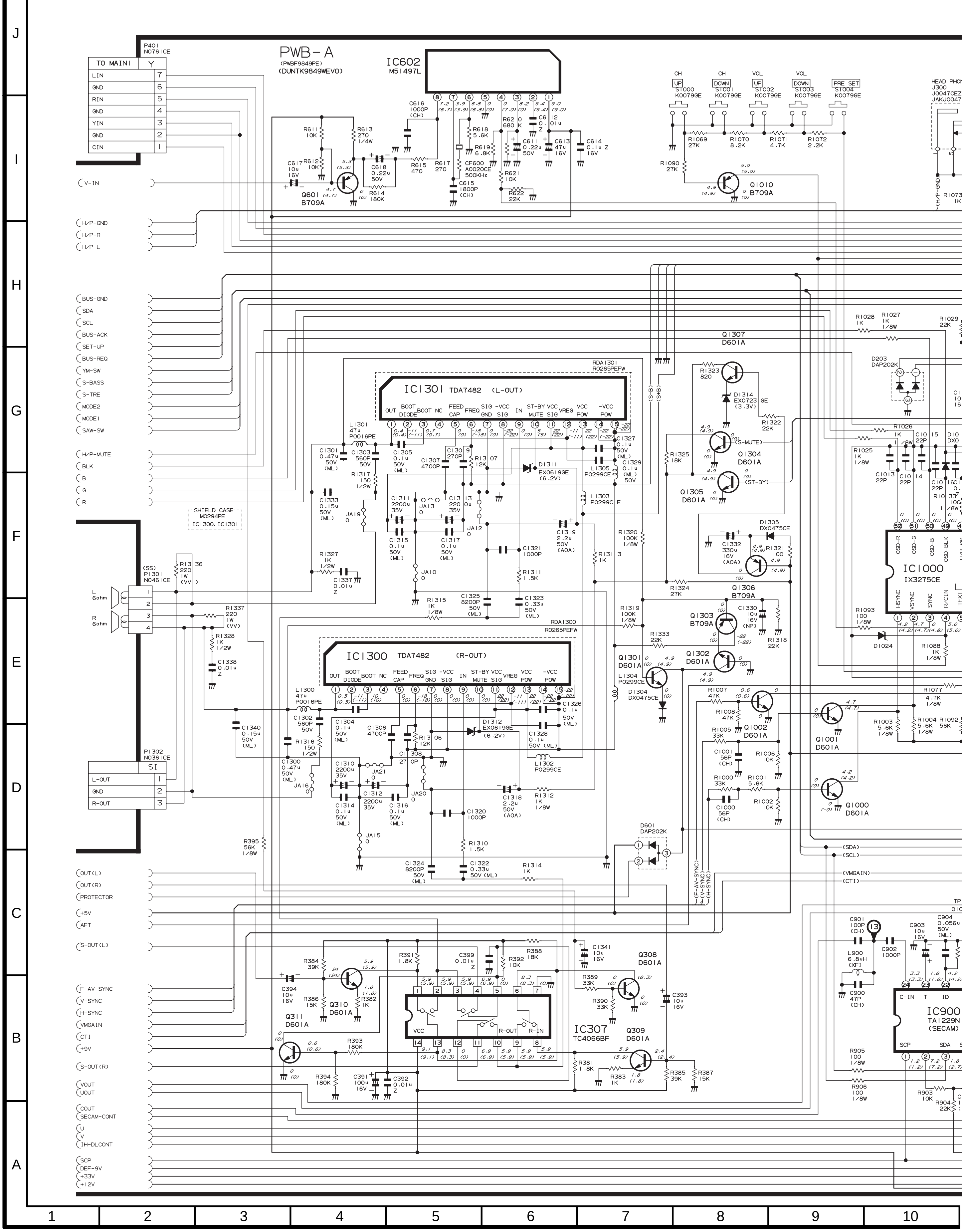
⚠ AND SHADED (▨) COMPONENTS
= SAFETY RELATED PARTS.

NOTE: ALL DIODES ARE "EX0260TA" UNLESS OTHERWISE SPECIFIED.


HEAD PHONE JACK J300 J0047CEZZ JAKJ0047CE
FRONT A/V J400 J0335CEZZ
R-IN L-IN VIDEO-IN
S-INPUT SC400 D0427CE
R/C UNIT RMC1000 0235CEZZ
SAVE D1000 PX0274CE
ON TIMER D1001 PX0274CE
POWER ON/OFF D1002 PX0414CE
Q1009 B709A
Q1008 B709A
Q1007 D601A
Q1006 D601A
Q1004 K583
Q1003 D601A
Q1011 K583
IC1001 M24C08B
VSS A2 A1 A0 SDA SCL TEST VCC
IC1002 PST994C
P1300 N0761CE
XB TO POWER
1 S-B
2 S-B
3 GND
4 GND
5 S+B
6 S+B
7
P1001 N0361CE
XA TO POWER
1 +5V
2 GND
3 POWER
Q1005 D601A
P600 N0861CE
XC TO POWER
1 +5V
2 GND
3 GND
4 +9V
5 GND
6 +15V
7 GND
8 +33V
IC1000 IX3275CE
SLD1008 M0238PE IC1000
D1006-D1029 EX0260TA
CF1000 A0084CE
T1000 B0029PE
L1000 1uH (XF)
IC600 NJ78L09U
9V GND IN
IC601 NJ78L12U
IN GND 12V
IC1003 M62334FP
VCC SCL SDA GND
VM CTI S-BASS S-TRE
Q800 D601A
Q801 D601A
IC900 TA1229N (SECAM)
C-IN T ID ACC FOR FOB B-Y IBIT DAC AD SW B-Y IN
SCP SDA SCL SYSTEM VCC (9V) / GND 2 B-Y OUT R-Y OUT R-Y IN
X900 B0004PE (4MHz)
IC800 TA8772AN (IH-DL)
R-Y OUT B-Y OUT B-Y CL R-Y IN B-Y IN SW2 SW1 B-Y MIX-IN R-Y MIX-IN GND B-Y DL-OUT B-Y FIL R-Y FIL R-Y DL-OUT
R-Y CL R-Y TO-DL B-Y R-Y AGC VCC (9V) FIL ADJ IN B-Y AGC CLX OUT CLX IN VSS B-Y DL-IN VDD (5V) R-Y DL-IN
L805 100uH (DF)
L806 100uH (DF)
L807 100uH (DF)
L1001 27uH (DF)
(+33V)
(+12V)
(S-BASS)
(S-TRE)
(SDA)
(SCL)

10	11	12	13	14	15	16	17	18	19

MAIN UNIT(2) (29A-SX8)
主电路装置(2) (29A-SX8)


J
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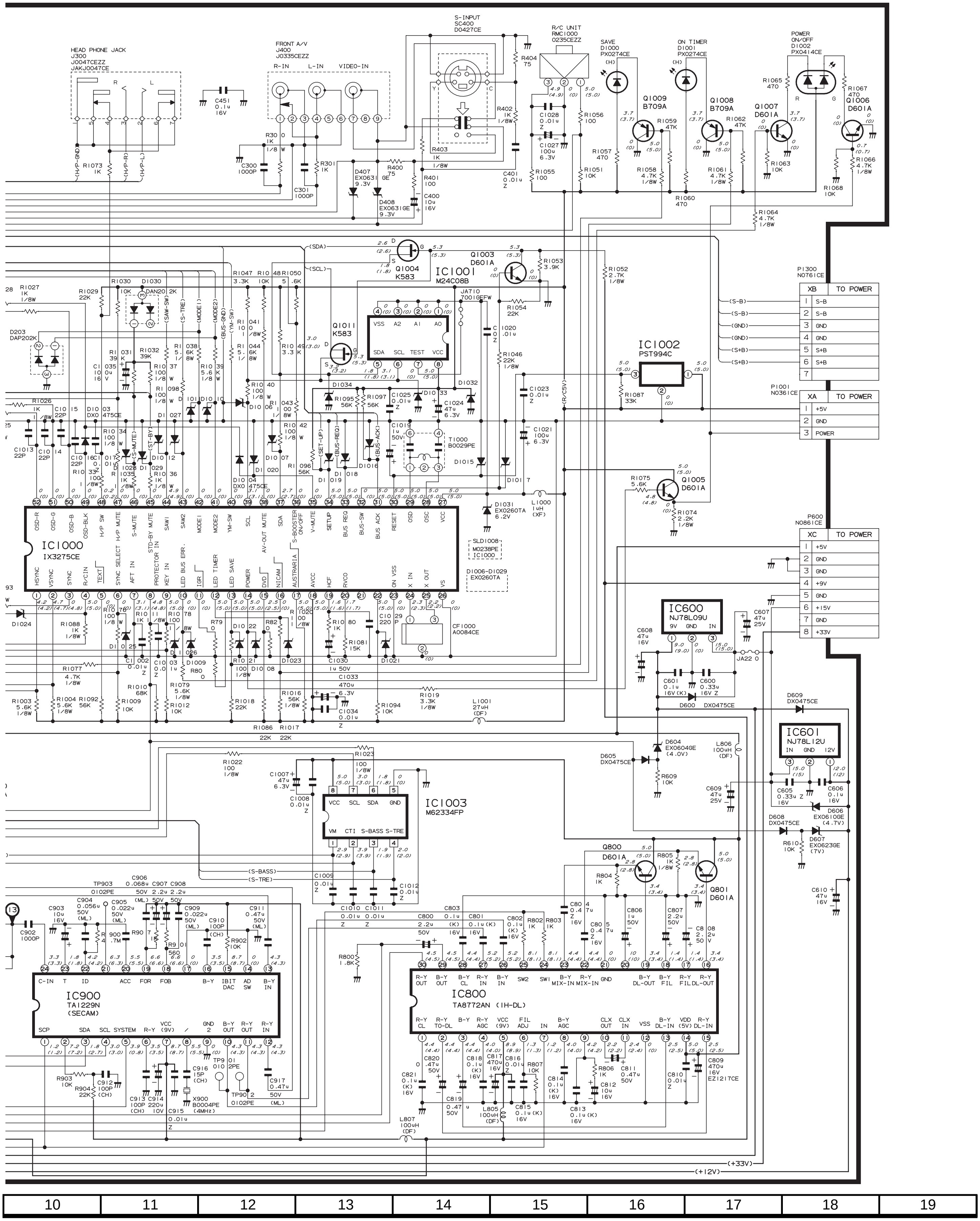
PWB-A
(PWBF9849PE)
(DUNTK9849WEV0)
P401
N0761CE
TO MAIN1
Y
LIN
GND
RIN
GND
YIN
GND
CIN
IC602
M51497L
Q601
B709A
CF600
A0020CE
500KHz
V-IN
H/P-GND
H/P-R
H/P-L
BUS-GND
SDA
SCL
BUS-ACK
SET-UP
BUS-REQ
YM-SW
S-BASS
S-TRE
MODE2
MODE1
SAW-SW
H/P-MUTE
BLK
B
G
R
CH UP S1000 K0079GE
CH DOWN S1001 K0079GE
VOL UP S1002 K0079GE
VOL DOWN S1003 K0079GE
PRE SET S1004 K0079GE
HEAD PHONE J300 J0047CEZ JAKJ0047
Q1010
B709A
IC1301 TDA7482 (L-OUT)
RDA1301
R0265PEFW
OUT
BOOT DIODE
BOOT
NC
FEED CAP
FREQ
SIG GND
-VCC SIG
IN
ST-BY MUTE
VCC SIG
VREG
VCC POW
-VCC POW
L1301
47u
P0016PE
D1311
EX0619GE
(6.2V)
L1305
P0299CE
L1303
P0299CE
SHIELD CASE
M0294PE
IC1300, IC1301
Q1307
D601A
D1314
EX0723GE
(3.3V)
Q1304
D601A
(S-MUTE)
Q1305
D601A
(ST-BY)
D1305
DX0475CE
Q1306
B709A
Q1303
B709A
Q1302
D601A
Q1301
D601A
L1304
P0299CE
D1304
DX0475CE
D203
DAP202K
IC1000
IX3275CE
OSD-R
OSD-G
OSD-B
OSD-BLK
HSYNC
VSYNC
SYNC
R/C IN
D1024
(SS)
P1301
N0461CE
L 6ohm
R 6ohm
IC1300 TDA7482 (R-OUT)
RDA1300
R0265PEFW
L1300
47u
P0016PE
D1312
EX0619GE
(6.2V)
L1302
P0299CE
P1302
N0361CE
S1
L-OUT
GND
R-OUT
Q1002
D601A
Q1001
D601A
Q1000
D601A
D601
DAP202K
(SDA)
(SCL)
(VMGAIN)
(CTI)
(F-AV-SYNC)
(V-SYNC)
(H-SYNC)
OUT(L)
OUT(R)
PROTECTOR
+5V
AFT
S-OUT(L)
F-AV-SYNC
V-SYNC
H-SYNC
VMGAIN
CTI
+9V
S-OUT(R)
VOUT
UOUT
COUT
SECAM-CONT
U
V
IH-DLCONT
SCP
DEF-9V
+33V
+12V
Q310
D601A
Q311
D601A
Q308
D601A
Q309
D601A
IC307
TC4066BF
VCC
R-OUT
R-IN
L900
6.8uH
(XF)
IC900
TA1229N
(SECAM)
C-IN
SCP
SDA

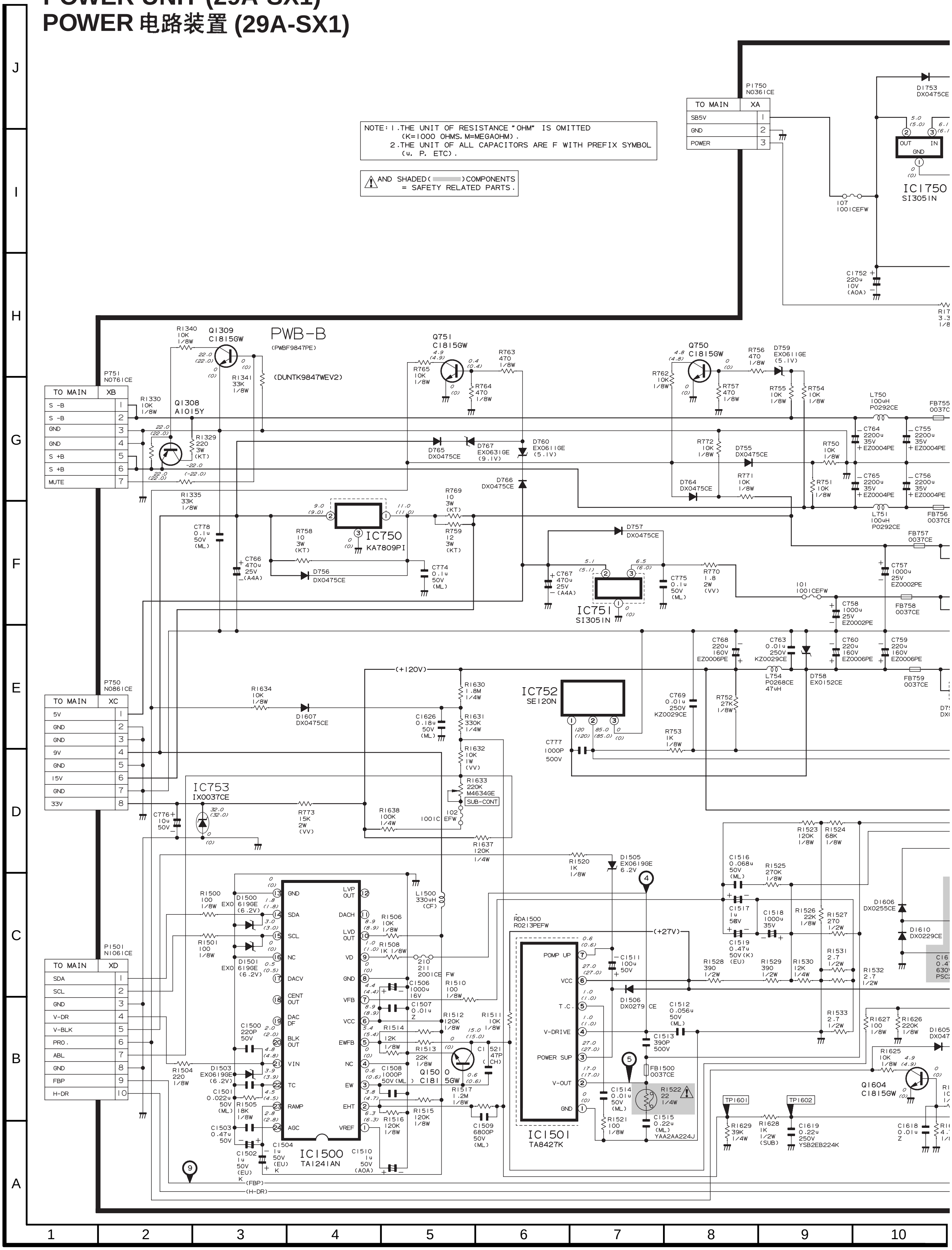
NOTE: 1.THE UNIT OF RESISTANCE "OHM" IS OMITTED
(K=1000 OHMS, M=MEGAOHM).
2.THE UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL
(u, P, ETC).

⚠ AND SHADED (▨) COMPONENTS
= SAFETY RELATED PARTS.

NOTE: ALL DIODES ARE "EX0260TA" UNLESS OTHERWISE SPECIFIED.

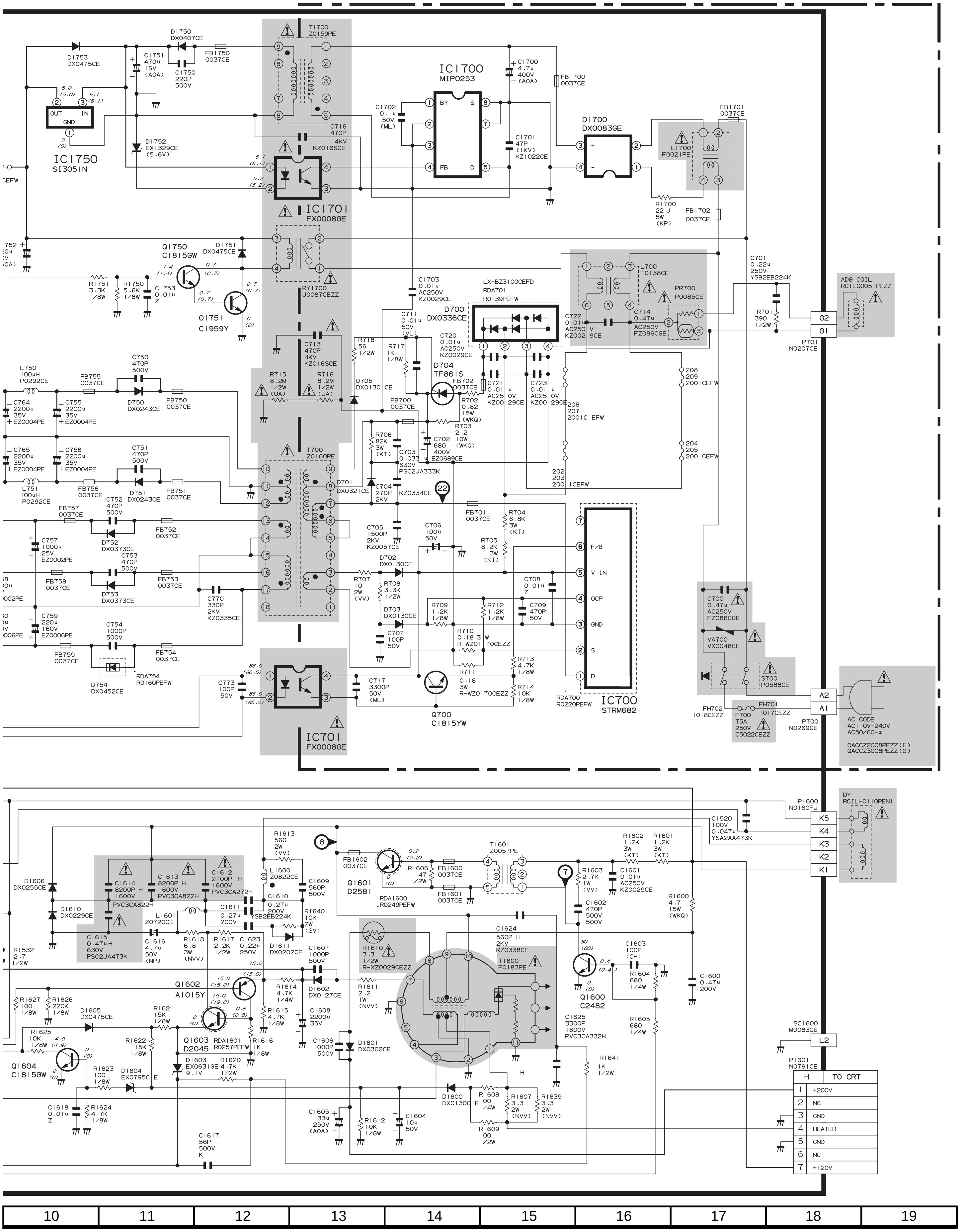

HEAD PHONE JACK J300 J0047CEZZ JAKJ0047CE
FRONT A/V J400 J0335CEZZ
R-IN
L-IN
VIDEO-IN
S-INPUT SC400 D0427CE
R/C UNIT RMC1000 0235CEZZ
SAVE D1000 PX0274CE
ON TIMER D1001 PX0274CE
POWER ON/OFF D1002 PX0414CE
Q1009 B709A
Q1008 B709A
Q1007 D601A
Q1006 D601A
Q1004 K583
Q1011 K583
Q1003 D601A
Q1005 D601A
IC1001 M24C08B
JA710 7001GEFW
VSS A2 A1 A0
SDA SCL TEST VCC
IC1002 PST994C
P1300 N0761CE
XB TO POWER
S-B
S-B
GND
GND
S+B
S+B
P1001 N0361CE
XA TO POWER
+5V
GND
POWER
P600 N0861CE
XC TO POWER
+5V
GND
GND
+9V
GND
+15V
GND
+33V
IC1000 IX3275CE
OSD-R OSD-G OSD-B OSD-BLK H/P SW H/P MUTE S-MUTE STD-BY MUTE SAW1 SAW2 MODE1 MODE2 YM-SW SCL AV-OUT MUTE SDA S-BOOSTER ON/OFF V-MUTE SETUP BUS REQ BUS SW BUS ACK RESET OSD OSC VCC
HSYNC VSYNC SYNC R/CIN TEXT SYNC SELECT AFT IN PROTECTOR IN KEY IN LED BUS ERR. IGR LED TIMER LED SAVE POWER DVD NICAM AUSTRARIA AVCC HCF RVCO ON VSS X IN X OUT VS
SLD1008 M0238PE IC1000
D1006-D1029 EX0260TA
T1000 B0029PE
CF1000 A0084CE
L1000 1uH (XF)
D1031 EX0260TA 6.2V
D407 EX0631GE 9.3V
D408 EX0631GE 9.3V
D203 DAP202K
DAN202K
IC600 NJ78L09U
9V GND IN
IC601 NJ78L12U
IN GND 12V
D600 DX0475CE
D609 DX0475CE
D604 EX0604GE (4.0V)
D605 DX0475CE
D606 EX0610GE (4.7V)
D607 EX0623GE (7V)
D608 DX0475CE
L806 100uH (DF)
JA220
IC1003 M62334FP
VCC SCL SDA GND
VM CTI S-BASS S-TRE
(S-BASS)
(S-TRE)
(SDA)
(SCL)
(S-B)
(GND)
(S+B)
(R/C5V)
Q800 D601A
Q801 D601A
IC900 TA1229N (SECAM)
C-IN T ID ACC FOR FOB B-Y IBIT DAC AD SW B-Y IN
SCP SDA SCL SYSTEM R-Y VCC (9V) GND 2 B-Y OUT R-Y OUT R-Y IN
TP903 0102PE
TP901 0102PE
TP902 0102PE
X900 B0004PE (4MHZ)
IC800 TA8772AN (1H-DL)
R-Y OUT B-Y OUT B-Y CL R-Y CL B-Y IN SW2 SW1 B-Y MIX-IN R-Y MIX-IN GND B-Y DL-OUT B-Y FIL R-Y FIL R-Y DL-OUT
R-Y CL R-Y TO-DL B-Y AGC VCC (9V) FIL ADJ IN B-Y AGC CLX OUT CLX IN VSS B-Y DL-IN VDD (5V) R-Y DL-IN
L805 100uH (DF)
L807 100uH (DF)
L1001 27uH (DF)
C809 470u 16V EZ1217CE
(+33V)
(+12V)
10
11
12
13
14
15
16
17
18
19

POWER UNIT (29A-SX1)
POWER 电路装置 (29A-SX1)


J
I
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
PWB-B
(PWBF9847PE)
(DUNTK9847WEV2)
P1750
N0361CE
TO MAIN
XA
SB5V
GND
POWER
D1753
DX0475CE
IC1750
SI3051N
OUT
IN
GND
107
1001CEFW
C1752
220u
10V
(A0A)
P751
N0761CE
XB
S -B
S +B
MUTE
R1340
10K
1/8W
Q1309
C1815GW
Q1308
A1015Y
R1341
33K
1/8W
R1330
R1329
220
3W
(KT)
R1335
33K
1/8W
Q751
C1815GW
R765
R763
470
R764
Q750
C1815GW
R762
R756
D759
EX0611GE
(5.1V)
R757
R755
R754
L750
100uH
P0292CE
FB755
0037CE
D765
DX0475CE
D767
EX0631GE
(9.1V)
D760
EX0611GE
(5.1V)
D766
DX0475CE
R772
D755
DX0475CE
R750
C764
2200u
35V
EZ0004PE
C755
D764
DX0475CE
R771
R751
C765
C756
L751
FB756
R769
10
3W
(KT)
IC750
KA7809PI
R758
R759
12
C778
0.1u
50V
(ML)
C766
470u
25V
(A4A)
D756
DX0475CE
C774
D757
DX0475CE
FB757
C767
470u
25V
(A4A)
IC751
SI3051N
C775
R770
1.8
2W
(VV)
101
1001CEFW
C757
1000u
25V
EZ0002PE
C758
FB758
P750
N0861CE
XC
5V
GND
9V
15V
33V
(+120V)
R1634
D1607
DX0475CE
R1630
1.8M
1/4W
C1626
0.18u
R1631
330K
IC752
SE120N
C769
0.01u
250V
KZ0029CE
C768
220u
160V
EZ0006PE
C763
L754
P0268CE
47uH
D758
EX0152CE
C760
C759
FB759
R752
27K
R753
1K
C777
1000P
500V
R1632
R1633
220K
M4634GE
SUB-CONT
IC753
IX0037CE
C776
10u
50V
R773
15K
2W
(VV)
R1638
100K
1/4W
102
1001CEFW
R1637
120K
R1520
D1505
EX0619GE
6.2V
R1523
R1524
C1516
0.068u
R1525
D1606
DX0255CE
D1610
DX0229CE
P1501
N1061CE
XD
SDA
SCL
V-DR
V-BLK
PRO.
ABL
FBP
H-DR
R1500
D1500
EX0619GE
(6.2V)
R1501
D1501
IC1500
TA1241AN
GND
SDA
SCL
NC
DACV
CENT OUT
DAC DF
BLK OUT
VIN
TC
RAMP
AGC
LVP OUT
DACH
LVD OUT
VD
VFB
VCC
EWFB
EW
EHT
VREF
L1500
330uH
(CF)
R1506
R1508
210
211
2001CE FW
C1506
1000u
16V
C1507
R1510
R1514
R1512
R1511
R1513
Q1500
C1815GW
C1521
47P
C1508
1000P
R1517
1.2M
R1516
R1515
C1509
6800P
C1500
220P
D1503
EX0619GE
(6.2V)
R1504
C1501
R1505
C1503
0.47u
C1502
C1504
C1510
(FBP)
(H-DR)
RDA1500
R0213PEFW
(+27V)
IC1501
TA8427K
POMP UP
VCC
T.C.
V-DRIVE
POWER SUP
V-OUT
GND
C1511
100u
50V
D1506
DX0279CE
C1512
0.056u
C1513
390P
500V
FB1500
0037CE
C1514
0.01u
R1521
C1515
0.22u
YAA2AA224J
R1522
22
1/4W
C1517
C1518
C1519
R1526
R1527
R1528
R1529
R1530
R1531
R1532
R1533
R1627
R1626
D1605
R1625
Q1604
C1815GW
TP1601
TP1602
R1629
39K
R1628
1K
(SUB)
C1619
0.22u
250V
YSB2EB224K
C1618
0.01u
Z
4
5
9

NOTE: 1. THE UNIT OF RESISTANCE "OHM" IS OMITTED (K=1000 OHMS, M=MEGAOHM).
2. THE UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL (u, P, ETC).

⚠ AND SHADED (▒) COMPONENTS = SAFETY RELATED PARTS.


T1700
Z0159PE
D1750
DX0407CE
D1753
DX0475CE
C1751
470u
16V
(A0A)
C1750
220P
500V
FB1750
0037CE
IC1700
MIP0253
C1700
4.7u
400V
(A0A)
FB1700
0037CE
C1702
0.1u
50V
(ML)
C1701
47P
(1KV)
KZ1022CE
D1700
DX0083GE
FB1701
0037CE
L1700
F0021PE
IC1750
SI3051N
D1752
EX1329CE
(5.6V)
C716
470P
4KV
KZ0165CE
IC1701
FX0008GE
R1700
22 J
5W
(KP)
FB1702
0037CE
Q1750
C1815GW
D1751
DX0475CE
R1751
3.3K
1/8W
R1750
5.6K
1/8W
C1753
0.01u
Z
Q1751
C1959Y
RY1700
J0087CEZZ
C1703
0.01u
AC250V
KZ0029CE
LX-BZ3100CEFD
RDA701
R0139PEFW
L700
F0138CE
PR700
P0085CE
C701
0.22u
250V
YSB2EB224K
ADG COIL
RCILG0051PEZZ
D700
DX0336CE
C722
0.01
AC250
KZ002
C714
0.47u
AC250V
FZ086CGE
R701
390
1/2W
G2
G1
P701
N0207CE
C711
0.01u
50V
(ML)
C713
470P
4KV
KZ0165CE
R718
56
1/2W
R717
1K
1/8W
C720
0.01u
AC250V
KZ0029CE
D704
TF861S
FB702
0037CE
C721
0.01
AC25
KZ00
C723
0.01
AC25
KZ00
208
209
2001CEFW
L750
100uH
P0292CE
FB755
0037CE
C750
470P
500V
R715
8.2M
1/2W
(UA)
R716
8.2M
1/2W
(UA)
D705
DX0130CE
C764
2200u
35V
EZ0004PE
C755
2200u
35V
EZ0004PE
D750
DX0243CE
FB750
0037CE
FB700
0037CE
R702
0.82
15W
(WKQ)
R703
2.2
10W
(WKQ)
206
207
2001CEFW
C765
2200u
35V
EZ0004PE
C756
2200u
35V
EZ0004PE
C751
470P
500V
T700
Z0160PE
R706
82K
3W
(KT)
C702
680
400V
EZ0689CE
C703
0.033
630V
PSC2JA333K
204
205
2001CEFW
202
203
200 1CEFW
L751
100uH
P0292CE
FB756
0037CE
D751
DX0243CE
FB751
0037CE
D701
DX0321CE
C704
270P
2KV
KZ0334CE
FB757
0037CE
C752
470P
500V
FB701
0037CE
R704
6.8K
3W
(KT)
C757
1000u
25V
EZ0002PE
D752
DX0373CE
FB752
0037CE
C705
1500P
2KV
KZ0057CE
C706
100u
50V
R705
8.2K
3W
(KT)
C753
470P
500V
D702
DX0130CE
FB758
0037CE
FB753
0037CE
D753
DX0373CE
R707
10
2W
(VV)
R708
3.3K
1/2W
C708
0.01u
Z
C770
330P
2KV
KZ0335CE
D703
DX0130CE
R709
1.2K
1/8W
R712
1.2K
1/8W
C709
470P
50V
C759
220u
160V
EZ0006PE
C754
1000P
500V
C707
100P
50V
R710
0.18 3W
R-WZ0170CEZZ
FB759
0037CE
FB754
0037CE
R711
0.18
3W
R-WZ0170CEZZ
R713
4.7K
1/8W
R714
10K
1/8W
D754
DX0452CE
RDA754
R0160PEFW
C773
100P
50V
C717
3300P
50V
(ML)
Q700
C1815YW
RDA700
R0220PEFW
IC700
STRM6821
F/B
V IN
OCP
GND
S
D
IC701
FX0008GE
C700
0.47u
AC250V
FZ086CGE
VA700
VX0048CE
S700
P0588CE
A2
A1
FH702
1018CEZZ
F700
T5A
250V
C5022CEZZ
FH701
1017CEZZ
P700
N0269GE
AC CODE
AC110V-240V
AC50/60Hz
QACCZ2008PEZZ(F)
QACCZ3008PEZZ(G)
P1600
N0160FJ
DY
RCILH0110PEN1
C1520
100V
0.047u
YSA2AA473K
K5
K4
K3
K2
K1
R1613
560
2W
(VV)
FB1602
0037CE
T1601
Z0057PE
R1602
1.2K
3W
(KT)
R1601
1.2K
3W
(KT)
D1606
DX0255CE
C1614
8200P H
1600V
PVC3CA822H
C1613
8200P H
1600V
PVC3CA822H
C1612
2700P H
1600V
PVC3CA272H
L1600
Z0822CE
C1609
560P
500V
Q1601
D2581
R1606
47
1/2W
FB1600
0037CE
FB1601
0037CE
RDA1600
R0249PEFW
R1603
2.7K
1W
(VV)
C1601
0.01u
AC250V
KZ0029CE
C1602
470P
500V
R1600
4.7
15W
(WKQ)
D1610
DX0229CE
C1610
0.27u
200V
YSB2EB224K
C1611
0.27u
200V
L1601
Z0720CE
R1640
10K
2W
(SV)
C1624
560P H
2KV
KZ0338CE
C1615
0.47uH
630V
PSC2JA473K
C1616
4.7u
50V
(NP)
R1618
6.8
3W
(NVV)
R1617
2.2K
1/2W
C1623
0.22u
250V
D1611
DX0202CE
R1610
3.3
1/2W
R-XZ0029CEZZ
T1600
F0183PE
C1603
100P
(CH)
R1532
2.7
1/2W
C1607
1000P
500V
R1604
680
1/4W
C1600
0.47u
200V
Q1602
A1015Y
R1614
4.7K
1/8W
D1602
DX0127CE
R1611
2.2
1W
(NVV)
Q1600
C2482
R1627
100
1/8W
R1626
220K
1/8W
D1605
DX0475CE
R1621
15K
1/8W
R1615
4.7K
1/8W
C1608
2200u
35V
C1625
3300P
1600V
PVC3CA332H
R1605
680
1/4W
SC1600
M0083CE
L2
R1625
10K
1/8W
R1622
15K
1/8W
Q1603
D2045
RDA1601
R0257PEFW
R1616
1K
1/8W
C1606
1000P
500V
D1601
DX0302CE
R1641
1K
1/2W
P1601
N0761CE
Q1604
C1815GW
R1623
100
1/8W
D1604
EX0795CE
D1603
EX0631GE
9.1V
R1620
4.7K
1/2W
D1600
DX0130CE
R1608
100
1/4W
R1607
3.3
2W
(NVV)
R1639
3.3
2W
(NVV)
C1618
0.01u
Z
R1624
4.7K
1/8W
C1605
33u
250V
(A0A)
R1612
10K
1/8W
C1604
10u
50V
R1609
100
1/2W
C1617
56P
500V
K
H
TO CRT
1 +200V
2 NC
3 GND
4 HEATER
5 GND
6 NC
7 +120V
8
7
22
10
11
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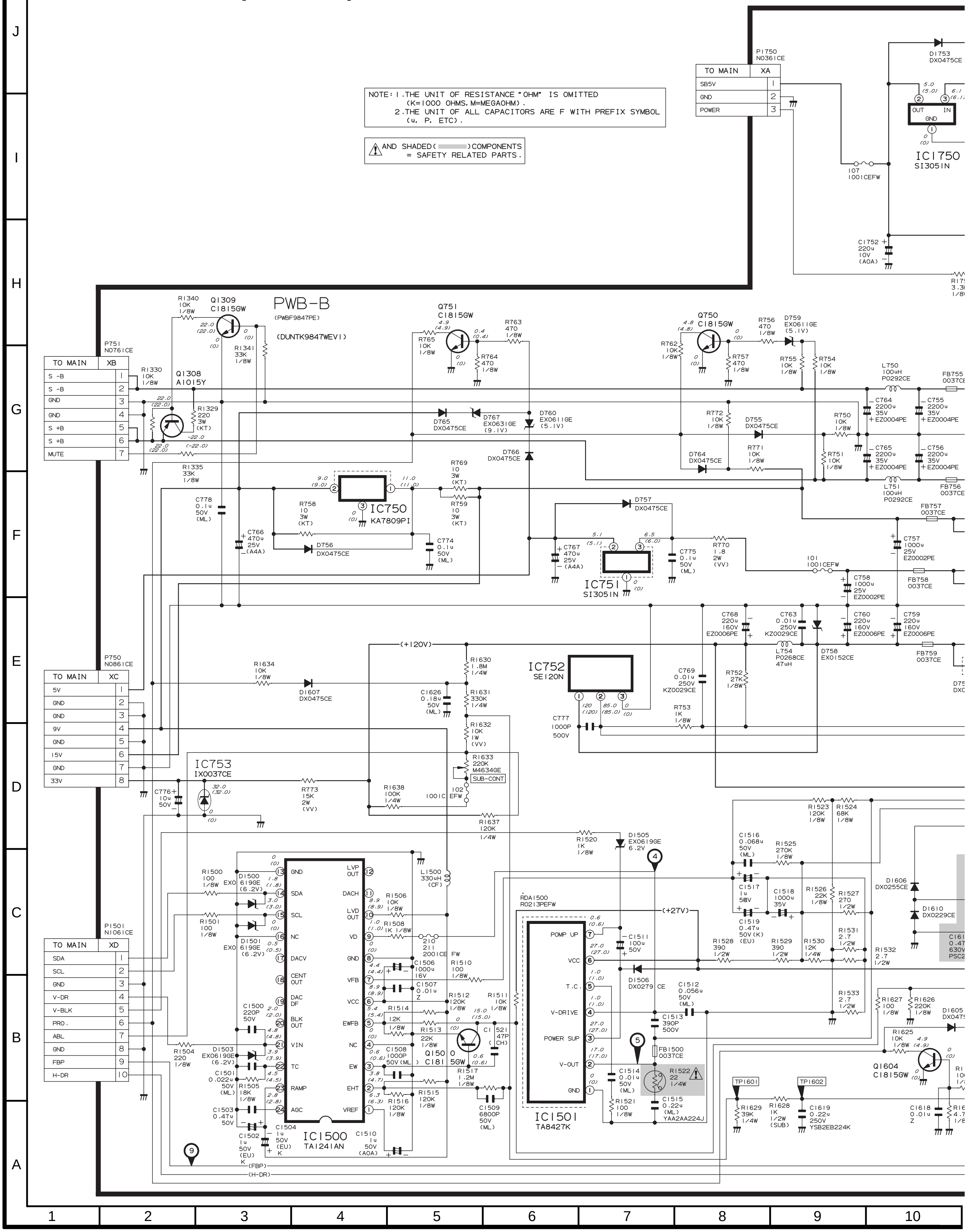
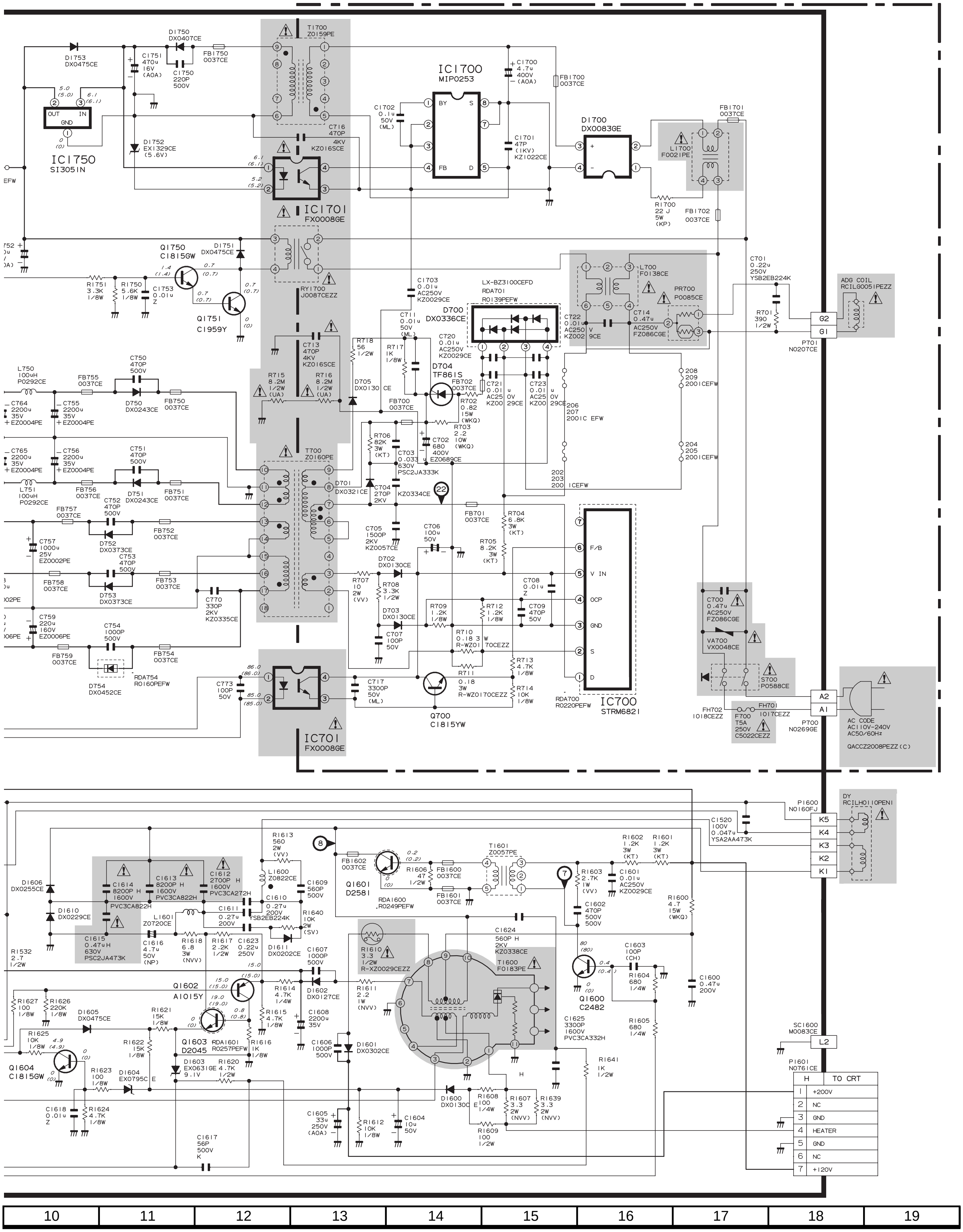
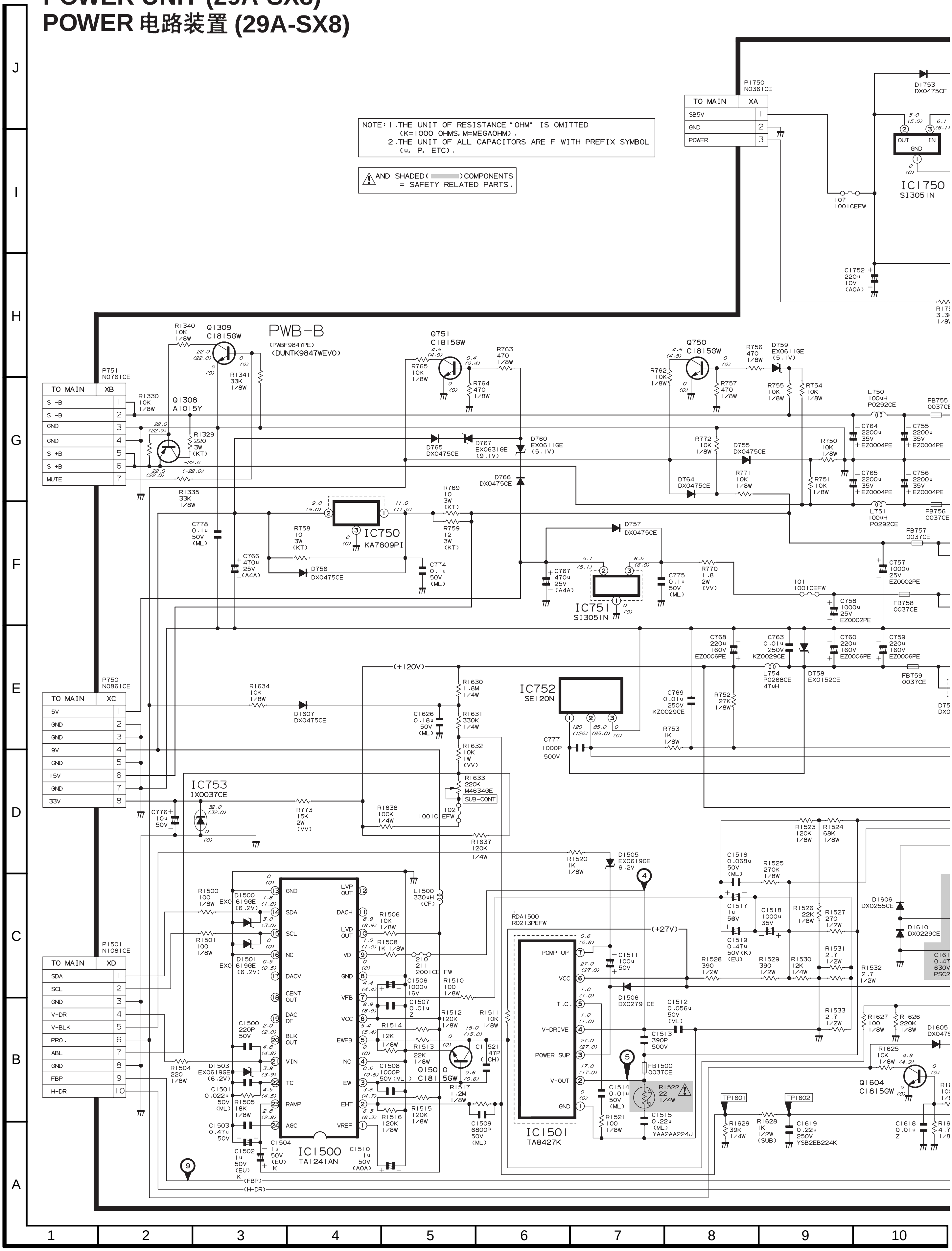
18
19

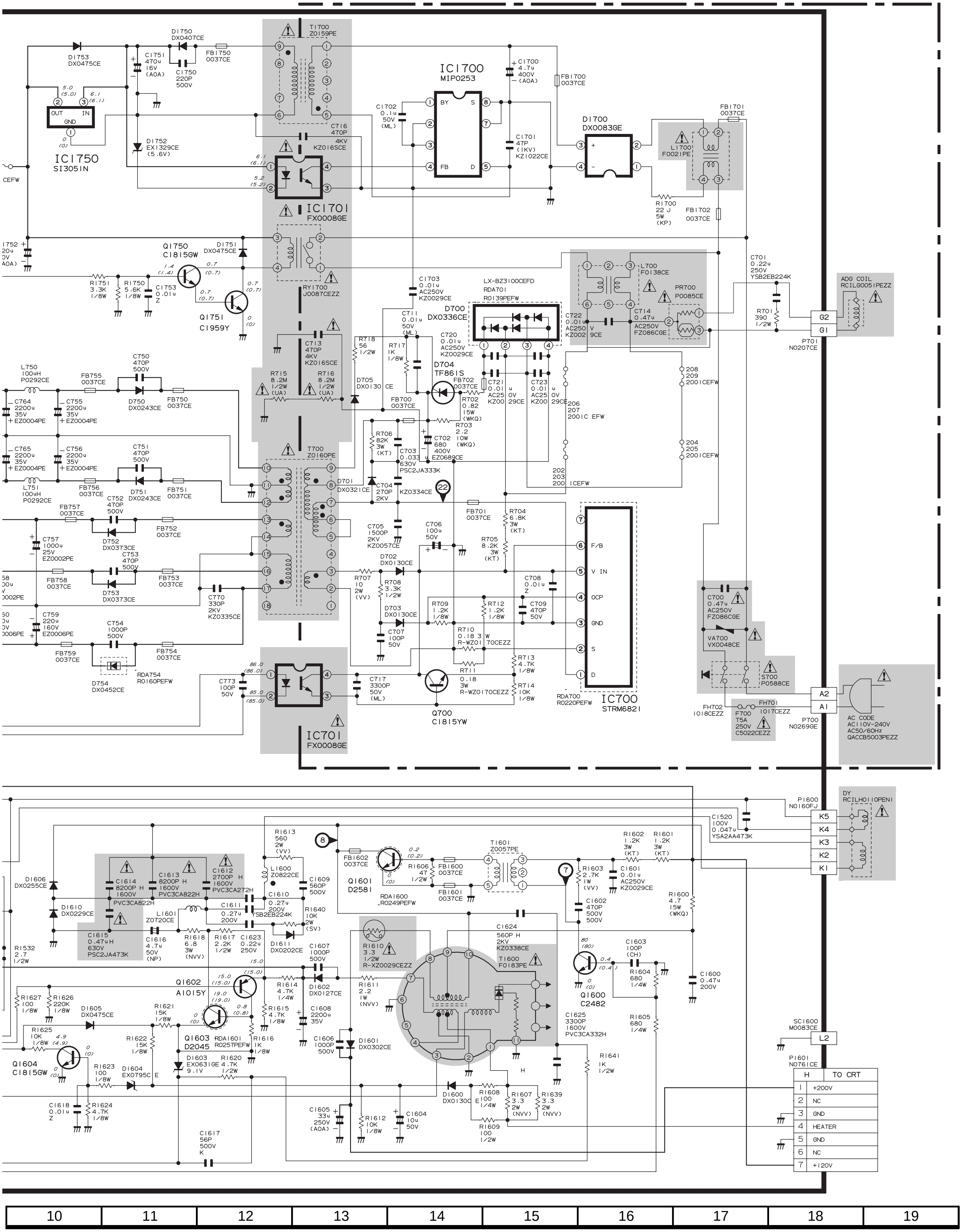
POWER UNIT (29A-SX5)
POWER 电路装置 (29A-SX5)


NOTE: 1.THE UNIT OF RESISTANCE "OHM" IS OMITTED
(K=1000 OHMS, M=MEGAOHM).
2.THE UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL
(u, P, ETC).
⚠ AND SHADED ( ) COMPONENTS = SAFETY RELATED PARTS.
PWB-B
(PWBF9847PE)
(DUNTK9847WEV1)
TO MAIN XA
SB5V 1
GND 2
POWER 3
P1750 N0361CE
D1753 DX0475CE
IC1750 SI3051N
OUT IN GND
107 1001CEFW
C1752 220u 10V (A0A)
TO MAIN XB
S -B 1
S -B 2
GND 3
GND 4
S +B 5
S +B 6
MUTE 7
P751 N0761CE
Q1309 C1815GW
Q1308 A1015Y
R1340 10K 1/8W
R1341 33K 1/8W
R1330 10K 1/8W
R1329 220 3W (KT)
R1335 33K 1/8W
Q751 C1815GW
Q750 C1815GW
R765 10K 1/8W
R764 470 1/8W
R763 470 1/8W
R762 10K 1/8W
R757 470 1/8W
R756 470 1/8W
D759 EX0611GE (5.1V)
R755 10K 1/8W
R754 10K 1/8W
L750 100uH P0292CE
FB755 0037CE
C764 2200u 35V EZ0004PE
C755 2200u 35V EZ0004PE
D765 DX0475CE
D767 EX0631GE (9.1V)
D760 EX0611GE (5.1V)
R772 10K 1/8W
D755 DX0475CE
R750 10K 1/8W
D766 DX0475CE
D764 DX0475CE
R771 10K 1/8W
R751 10K 1/8W
C765 2200u 35V EZ0004PE
C756 2200u 35V EZ0004PE
L751 100uH P0292CE
FB756 0037CE
IC750 KA7809PI
R769 10 3W (KT)
R759 10 3W (KT)
C778 0.1u 50V (ML)
R758 10 3W (KT)
C766 470u 25V (A4A)
D756 DX0475CE
C774 0.1u 50V (ML)
D757 DX0475CE
FB757 0037CE
C767 470u 25V (A4A)
IC751 SI3051N
C775 0.1u 50V (ML)
R770 1.8 2W (VV)
C757 1000u 25V EZ0002PE
101 1001CEFW
C758 1000u 25V EZ0002PE
FB758 0037CE
C768 220u 160V EZ0006PE
C763 0.01u 250V KZ0029CE
C760 220u 160V EZ0006PE
C759 220u 160V EZ0006PE
L754 P0268CE 47uH
D758 EX0152CE
FB759 0037CE
TO MAIN XC
5V 1
GND 2
GND 3
9V 4
GND 5
15V 6
GND 7
33V 8
P750 N0861CE
(+120V)
R1634 10K 1/8W
D1607 DX0475CE
R1630 1.8M 1/4W
R1631 330K 1/4W
C1626 0.18u 50V (ML)
R1632 10K 1W (VV)
R1633 220K M4634GE
SUB-CONT
IC752 SE120N
C769 0.01u 250V KZ0029CE
R752 27K 1/8W
R753 1K 1/8W
C777 1000P 500V
IC753 IX0037CE
C776 10u 50V
R773 15K 2W (VV)
R1638 100K 1/4W
102 1001CEFW
R1637 120K 1/4W
R1520 1K 1/8W
D1505 EX0619GE 6.2V
R1523 120K 1/8W
R1524 68K 1/8W
C1516 0.068u 50V (ML)
R1525 270K 1/8W
TO MAIN XD
SDA 1
SCL 2
GND 3
V-DR 4
V-BLK 5
PRO. 6
ABL 7
GND 8
FBP 9
H-DR 10
P1501 N1061CE
R1500 100 1/8W
D1500 EX0619GE (6.2V)
R1501 100 1/8W
D1501 EX0619GE (6.2V)
C1500 220P 50V
R1504 220 1/8W
D1503 EX0619GE (6.2V)
C1501 0.022u 50V (ML)
R1505 18K 1/8W
C1503 0.47u 50V
C1502 1u 50V (EU) K
C1504 1u 50V (EU) K
IC1500 TA1241AN
GND SDA SCL NC DACV CENT OUT DAC DF BLK OUT VIN TC RAMP AGC
LVP OUT DACH LVD OUT VD GND VFB VCC EWFB NC EW EHT VREF
C1510 1u 50V (A0A)
L1500 330uH (CF)
R1506 10K 1/8W
R1508 1K 1/8W
210 2001CEFW
C1506 1000u 16V
R1510 100 1/8W
C1507 0.01u Z
R1512 120K 1/8W
R1511 10K 1/8W
R1514 12K 1/8W
R1513 22K 1/8W
Q1500 C1815GW
C1521 47P (CH)
C1508 1000P 50V (ML)
R1517 1.2M 1/8W
R1516 120K 1/8W
R1515 120K 1/8W
C1509 6800P 50V (ML)
RDA1500 R0213PEFW
(+27V)
IC1501 TA8427K
POMP UP VCC T.C. V-DRIVE POWER SUP V-OUT GND
C1511 100u 50V
D1506 DX0279CE
C1512 0.056u 50V (ML)
C1513 390P 500V
FB1500 0037CE
C1514 0.01u 50V (ML)
R1522 22 1/4W
R1521 100 1/8W
C1515 0.22u (ML) YAA2AA224J
C1517 1u 50V
C1518 1000u 35V
C1519 0.47u 50V (K) (EU)
R1526 22K 1/8W
R1527 270 1/2W
R1528 390 1/2W
R1529 390 1/2W
R1530 12K 1/4W
R1531 2.7 1/2W
R1532 2.7 1/2W
R1533 2.7 1/2W
D1606 DX0255CE
D1610 DX0229CE
R1627 100 1/8W
R1626 220K 1/8W
D1605
R1625 10K 1/8W
Q1604 C1815GW
TP1601
TP1602
R1629 39K 1/4W
R1628 1K 1/2W (SUB)
C1619 0.22u 250V YSB2EB224K
C1618 0.01u Z
(FBP)
(H-DR)
J I H G F E D C B A
1 2 3 4 5 6 7 8 9 10


IC1750
SI3051N
OUT IN GND
D1753 DX0475CE
D1750 DX0407CE
C1751 470u 16V (A0A)
C1750 220P 500V
FB1750 0037CE
D1752 EX1329CE (5.6V)
T1700 Z0159PE
IC1700 MIP0253
BY S FB D
C1702 0.1u 50V (ML)
C1700 4.7u 400V (A0A)
C1701 47P (1KV) KZ1022CE
FB1700 0037CE
D1700 DX0083GE
FB1701 0037CE
L1700 F0021PE
R1700 22 J 5W (KP)
FB1702 0037CE
C716 470P 4KV KZ016SCE
IC1701 FX0008GE
Q1750 C1815GW
D1751 DX0475CE
Q1751 C1959Y
R1751 3.3K 1/8W
R1750 5.6K 1/8W
C1753 0.01u Z
RY1700 J0087CEZZ
C1703 0.01u AC250V KZ0029CE
LX-BZ3100CEFD
RDA701 R0139PEFW
D700 DX0336CE
L700 F0138CE
PR700 P0085CE
C714 0.47u AC250V FZ086CGE
C722 0.01u AC250 V KZ002 9CE
C701 0.22u 250V YSB2EB224K
R701 390 1/2W
ADG COIL RCILG0051PEZZ
G2
G1
P701 N0207CE
C711 0.01u 50V (ML)
C713 470P 4KV KZ016SCE
R718 56 1/2W
R717 1K 1/8W
C720 0.01u AC250V KZ0029CE
D704 TF861S
FB702 0037CE
C721 0.01 u AC25 0V KZ00 29CE
C723 0.01 u AC25 0V KZ00 29CE
208 209 2001CEFW
206 207 2001C EFW
204 205 2001CEFW
202 203 200 ICEFW
L750 100uH P0292CE
FB755 0037CE
C750 470P 500V
D750 DX0243CE
FB750 0037CE
C764 2200u 35V EZ0004PE
C755 2200u 35V EZ0004PE
R715 8.2M 1/2W (UA)
R716 8.2M 1/2W (UA)
D705 DX0130 CE
FB700 0037CE
R702 0.82 15W (WKQ)
R703 2.2 10W (WKQ)
C702 680 400V EZ0689CE
R706 82K 3W (KT)
C703 0.033 630V PSC2JA333K
C765 2200u 35V EZ0004PE
C756 2200u 35V EZ0004PE
L751 100uH P0292CE
C751 470P 500V
FB756 0037CE
D751 DX0243CE
FB751 0037CE
T700 Z0160PE
D701 DX0321CE
C704 270P 2KV KZ0334CE
FB757 0037CE
C752 470P 500V
FB752 0037CE
C757 1000u 25V EZ0002PE
D752 DX0373CE
C753 470P 500V
FB758 0037CE
FB753 0037CE
D753 DX0373CE
C770 330P 2KV KZ0335CE
C759 220u 160V EZ0006PE
C754 1000P 500V
FB759 0037CE
FB754 0037CE
RDA754 R0160PEFW
D754 DX0452CE
FB701 0037CE
R704 6.8K 3W (KT)
C705 1500P 2KV KZ0057CE
C706 100u 50V
R705 8.2K 3W (KT)
D702 DX0130CE
R707 10 2W (VV)
R708 3.3K 1/2W
C708 0.01u Z
D703 DX0130CE
R709 1.2K 1/8W
R712 1.2K 1/8W
C709 470P 50V
C707 100P 50V
R710 0.18 3W R-WZ0170CEZZ
R711 0.18 3W R-WZ0170CEZZ
R713 4.7K 1/8W
R714 10K 1/8W
C773 100P 50V
C717 3300P 50V (ML)
Q700 C1815YW
IC701 FX0008GE
IC700 STRM6821
F/B V IN OCP GND S D
RDA700 R0220PEFW
C700 0.47u AC250V FZ086CGE
VA700 VX0048CE
S700 P0588CE
FH702 1018CEZZ
FH701 1017CEZZ
F700 T5A 250V C5022CEZZ
P700 N0269GE
A2
A1
AC CODE AC110V-240V AC50/60Hz
QACCZ2008PEZZ(C)
P1600 N0160FJ
DY RCILH0110PEN1
K5 K4 K3 K2 K1
C1520 100V 0.047u YSA2AA473K
R1613 560 2W (VV)
L1600 Z0822CE
C1609 560P 500V
FB1602 0037CE
Q1601 D2581
R1606 47 1/2W
FB1600 0037CE
FB1601 0037CE
RDA1600 R0249PEFW
T1601 Z0057PE
R1602 1.2K 3W (KT)
R1601 1.2K 3W (KT)
R1603 2.7K 1W (VV)
C1601 0.01u AC250V KZ0029CE
C1602 470P 500V
R1600 4.7 15W (WKQ)
D1606 DX0255CE
C1614 8200P H 1600V PVC3CA822H
C1613 8200P H 1600V PVC3CA822H
C1612 2700P H 1600V PVC3CA272H
C1610 0.27u 200V
C1611 0.27u 200V
YSB2EB224K
R1640 10K 2W (SV)
D1610 DX0229CE
L1601 Z0720CE
C1615 0.47u H 630V PSC2JA473K
C1616 4.7u 50V (NP)
R1618 6.8 3W (NVV)
R1617 2.2K 1/2W
C1623 0.22u 250V
D1611 DX0202CE
R1610 3.3 1/2W R-XZ0029CEZZ
C1624 560P H 2KV KZ0338CE
T1600 F0183PE
C1603 100P (CH)
R1604 680 1/4W
C1600 0.47u 200V
Q1600 C2482
R1532 2.7 1/2W
C1607 1000P 500V
Q1602 A1015Y
R1614 4.7K 1/4W
D1602 DX0127CE
R1611 2.2 1W (NVV)
R1627 100 1/8W
R1626 220K 1/8W
D1605 DX0475CE
R1621 15K 1/8W
R1615 4.7K 1/8W
C1608 2200u 35V
C1625 3300P 1600V PVC3CA332H
R1605 680 1/4W
R1625 10K 1/8W
R1622 15K 1/8W
Q1603 D2045
RDA1601 R0257PEFW
R1616 1K 1/8W
C1606 1000P 500V
D1601 DX0302CE
SC1600 M0083CE
L2
Q1604 C1815GW
R1623 100 1/8W
D1604 EX0795CE
D1603 EX0631GE 9.1V
R1620 4.7K 1/2W
R1641 1K 1/2W
H
P1601 N0761CE
H TO CRT
1 +200V
2 NC
3 GND
4 HEATER
5 GND
6 NC
7 +120V
D1600 DX0130CE
R1608 100 1/4W
R1607 3.3 2W (NVV)
R1639 3.3 2W (NVV)
R1609 100 1/2W
C1618 0.01u Z
R1624 4.7K 1/8W
C1605 33u 250V (A0A)
R1612 10K 1/8W
C1604 10u 50V
C1617 56P 500V K
8
9
22
10 11 12 13 14 15 16 17 18 19

POWER UNIT (29A-SX8)
POWER 电路装置 (29A-SX8)


NOTE: 1.THE UNIT OF RESISTANCE "OHM" IS OMITTED (K=1000 OHMS, M=MEGAOHM).
2.THE UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL (u, P, ETC).
⚠ AND SHADED ( ) COMPONENTS = SAFETY RELATED PARTS.
PWB-B
(PWBF9847PE)
(DUNTK9847WEV0)
TO MAIN XA
SB5V
GND
POWER
P1750 N0361CE
TO MAIN XB
S -B
S -B
GND
GND
S +B
S +B
MUTE
P751 N0761CE
TO MAIN XC
5V
GND
GND
9V
GND
15V
GND
33V
P750 N0861CE
TO MAIN XD
SDA
SCL
GND
V-DR
V-BLK
PRO.
ABL
GND
FBP
H-DR
P1501 N1061CE
IC1750 SI3051N
IC750 KA7809PI
IC751 SI3051N
IC752 SE120N
IC753 IX0037CE
IC1500 TA1241AN
IC1501 TA8427K
Q1309 C1815GW
Q1308 A1015Y
Q751 C1815GW
Q750 C1815GW
Q1501 C1815GW
Q1604 C1815GW
(+120V)
(+27V)
SUB-CONT
POMP UP
VCC
T.C.
V-DRIVE
POWER SUP
V-OUT
GND
GND
SDA
SCL
NC
DACV
CENT OUT
DAC DF
BLK OUT
VIN
TC
RAMP
AGC
LVP OUT
DACH
LVD OUT
VD
GND
VFB
VCC
EWFB
NC
EW
EHT
VREF
(FBP)
(H-DR)
J
I
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10


IC1750
SI3051N
T1700
Z0159PE
IC1700
MIP0253
D1700
DX0083GE
L1700
F0021PE
IC1701
FX0008GE
Q1750
C1815GW
Q1751
C1959Y
RY1700
J0087CEZZ
D700
DX0336CE
LX-BZ3100CEFD
RDA701
R0139PEFW
L700
F0138CE
PR700
P0085CE
C701
0.22u
250V
YSB2EB224K
R701
390
1/2W
P701
N0207CE
ADG COIL
RCILG0051PEZZ
G2
G1
T700
Z0160PE
D704
TF861S
IC700
STRM6821
F/B
V IN
OCP
GND
S
D
Q700
C1815YW
IC701
FX0008GE
C700
0.47u
AC250V
FZ086CGE
VA700
VX0048CE
S700
P0588CE
A2
A1
FH702
1018CEZZ
F700
T5A
250V
C5022CEZZ
FH701
1017CEZZ
P700
N0269GE
AC CODE
AC110V-240V
AC50/60Hz
QACCB5003PEZZ
DY
RCILH0110PEN1
P1600
N0160FJ
K5
K4
K3
K2
K1
C1520
100V
0.047u
YSA2AA473K
Q1601
D2581
T1601
Z0057PE
Q1600
C2482
T1600
F0183PE
Q1602
A1015Y
Q1603
D2045
Q1604
C1815GW
SC1600
M0083CE
L2
P1601
N0761CE
H
TO CRT
1 +200V
2 NC
3 GND
4 HEATER
5 GND
6 NC
7 +120V
10
11
12
13
14
15
16
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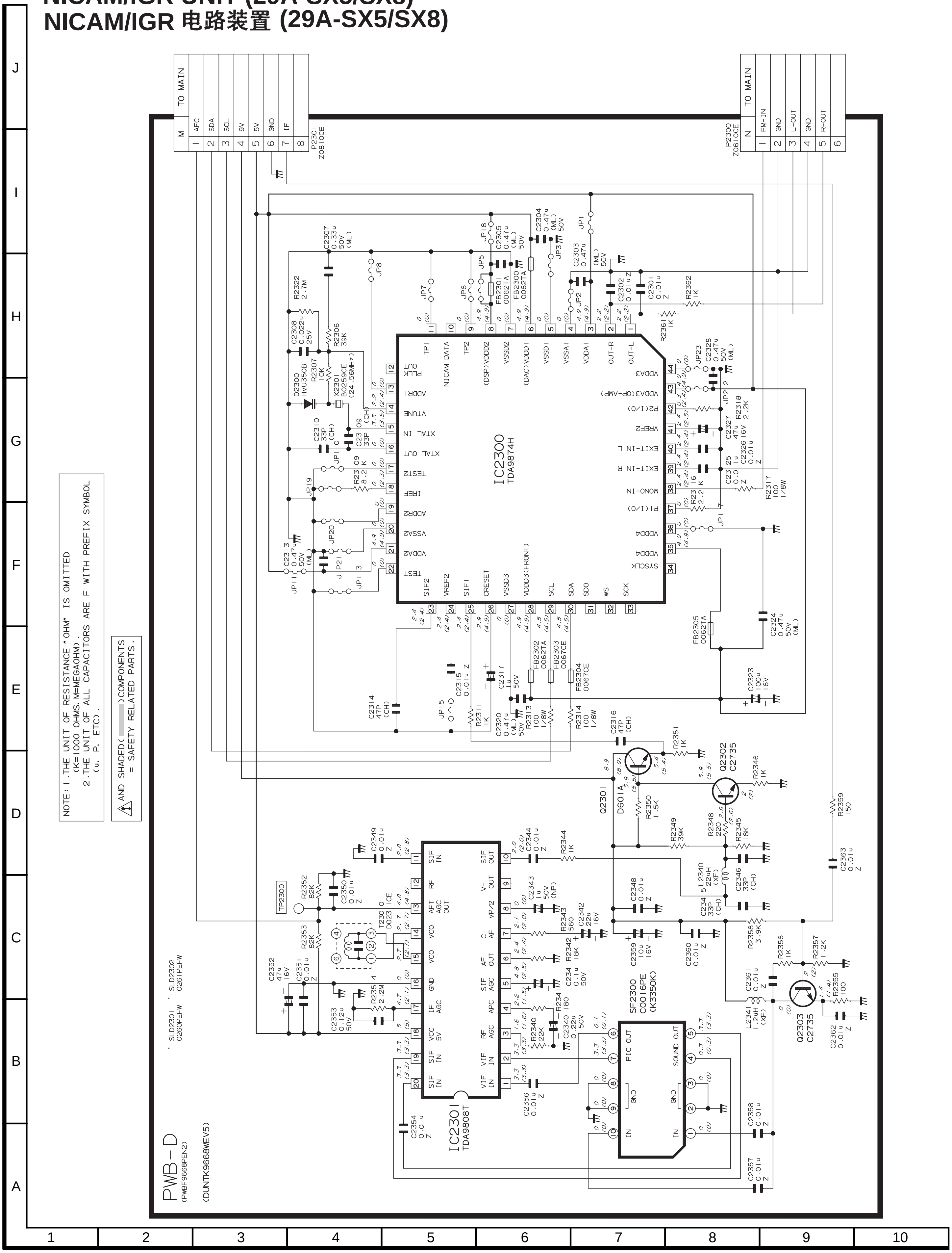
18
19

NICAM/IGR UNIT (29A-SX5/SX8)
NICAM/IGR 电路装置 (29A-SX5/SX8)


TO MAIN
M
AFC
SDA
SCL
9V
5V
GND
IF
P2301
Z0810CE
TO MAIN
N
FM-IN
GND
L-OUT
GND
R-OUT
P2300
Z0610CE
IC2300
TDA9874H
IC2301
TDA9808T
SF2300
C0016PE
(K3350K)
Q2301
D601A
Q2302
C2735
Q2303
C2735
X2301
B0259CE
(24.576MHz)
D2300
HVU350B
TP2300
T2300
D0231CE
L2340
22uH
(XF)
L2341
1.2uH
(XF)
NOTE: 1.THE UNIT OF RESISTANCE "OHM" IS OMITTED
(K=1000 OHMS, M=MEGAOHM).
2.THE UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL
(u, P, ETC).
AND SHADED( )COMPONENTS
= SAFETY RELATED PARTS.
SLD2301
0260PEFW
SLD2302
0261PEFW
PWB-D
(PWBF9668PEN2)
(DUNTK9668WEV5)
J
I
H
G
F
E
D
C
B
A
1
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3
4
5
6
7
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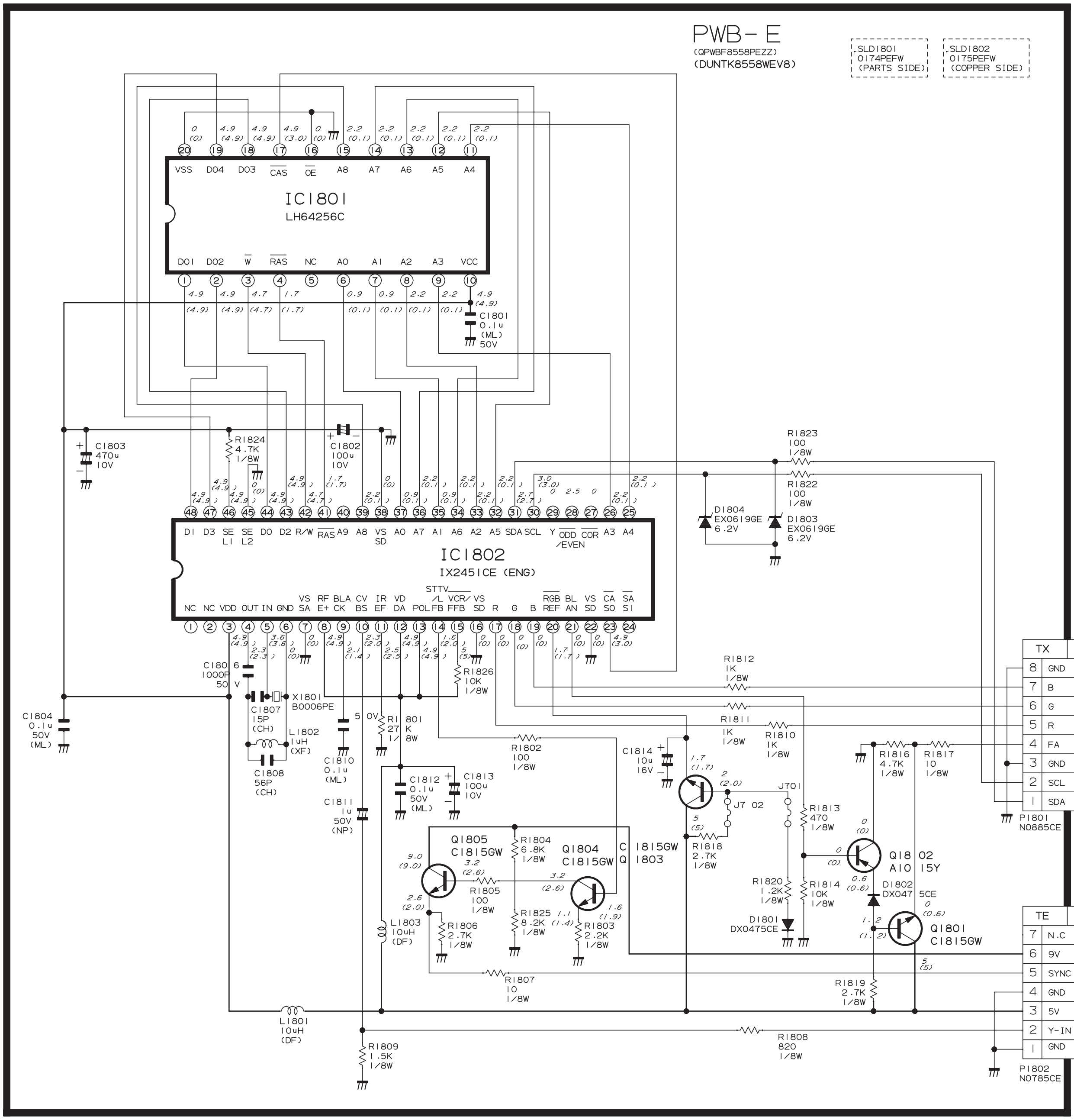
9
10

TEXT UNIT (29A-SX5)
TEXT 电路装置 (29A-SX5)

⚠ AND SHADED(▨)COMPONENTS = SAFETY RELATED PARTS.

NOTE: 1.THE UNIT OF RESISTANCE "OHM" IS OMITTED (K=1000 OHMS, M=MEGAOHM).
2.THE UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL (u, P, ETC).

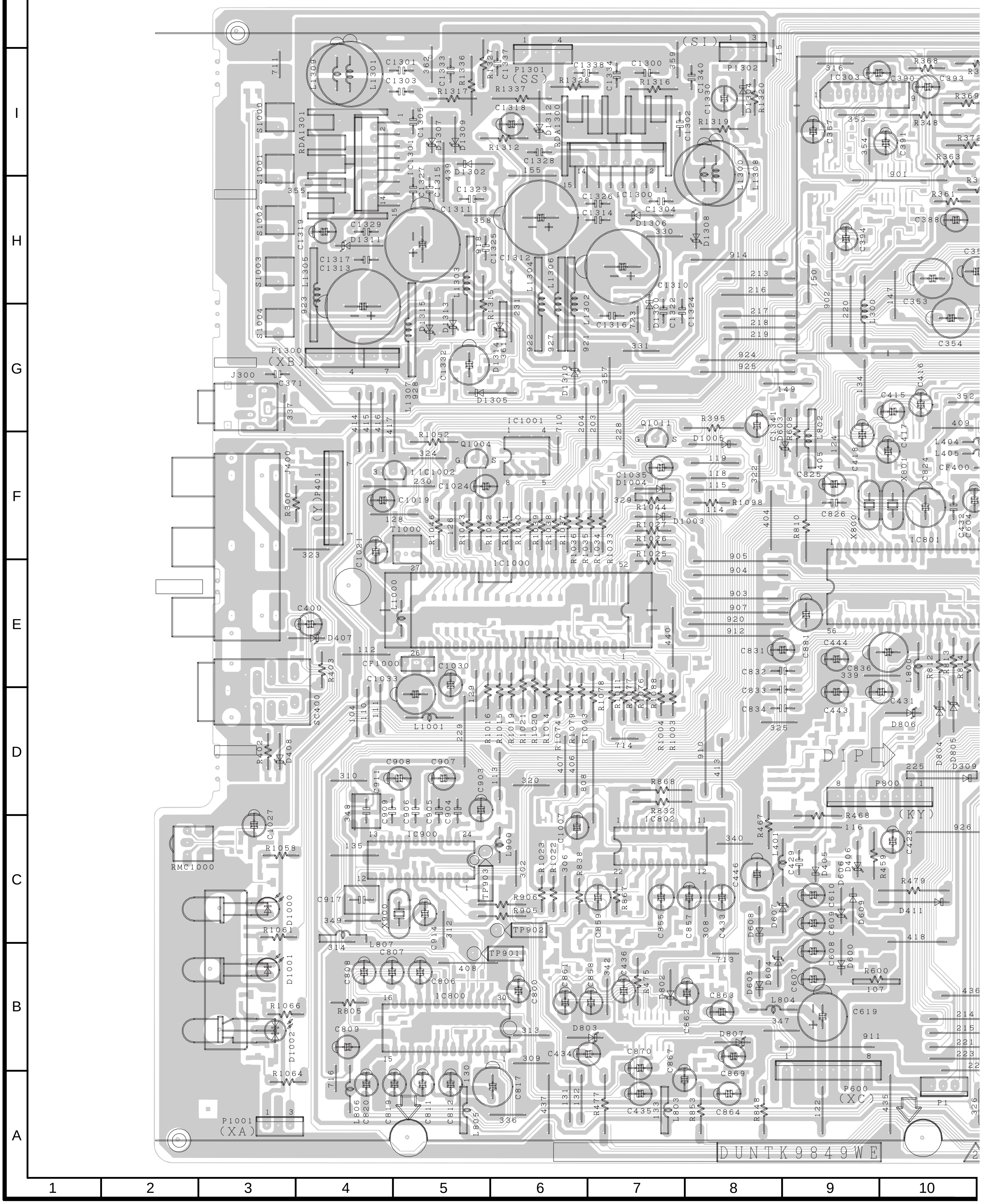

PWB-E
(QPWBF8558PEZZ)
(DUNTK8558WEV8)
SLD1801 0174PEFW (PARTS SIDE)
SLD1802 0175PEFW (COPPER SIDE)
IC1801
LH64256C
VSS D04 D03 CAS OE A8 A7 A6 A5 A4
D01 D02 W RAS NC A0 A1 A2 A3 VCC
C1801 0.1u (ML) 50V
C1803 470u 10V
R1824 4.7K 1/8W
C1802 100u 10V
IC1802
IX2451CE (ENG)
D1 D3 SE L1 SE L2 D0 D2 R/W RAS A9 A8 VS SD A0 A7 A1 A6 A2 A5 SDA SCL Y ODD/EVEN COR A3 A4
NC NC VDD OUT IN GND VS SA RF E+ BLA CK CV BS IR EF VD DA POL STTV/L FB VCR/FFB VS SD R G B RGB REF BL AN VS SD CA S0 SA SI
R1823 100 1/8W
R1822 100 1/8W
D1804 EX0619GE 6.2V
D1803 EX0619GE 6.2V
C1806 1000P 50V
X1801 B0006PE
C1807 15P (CH)
L1802 1uH (XF)
C1808 56P (CH)
C1804 0.1u 50V (ML)
C1810 0.1u (ML) 50V
R1801 27K 1/8W
R1826 10K 1/8W
C1811 1u 50V (NP)
C1812 0.1u 50V (ML)
C1813 100u 10V
R1802 100 1/8W
R1812 1K 1/8W
R1811 1K 1/8W
R1810 1K 1/8W
C1814 10u 16V
Q1805 C1815GW
Q1804 C1815GW
Q1803 C1815GW
R1804 6.8K 1/8W
R1805 100 1/8W
R1806 2.7K 1/8W
R1825 8.2K 1/8W
R1803 2.2K 1/8W
R1807 10 1/8W
L1803 10uH (DF)
L1801 10uH (DF)
R1809 1.5K 1/8W
R1808 820 1/8W
J701 J702
R1818 2.7K 1/8W
R1813 470 1/8W
R1820 1.2K 1/8W
R1814 10K 1/8W
D1801 DX0475CE
D1802 DX0475CE
Q1802 A1015Y
Q1801 C1815GW
R1816 4.7K 1/8W
R1817 10 1/8W
R1819 2.7K 1/8W
TX TO PWB-A
8 GND
7 B
6 G
5 R
4 FA
3 GND
2 SCL
1 SDA
P1801 N0885CE
TE TO PWB-A
7 N.C
6 9V
5 SYNC OUT
4 GND
3 5V
2 Y-IN
1 GND
P1802 N0785CE

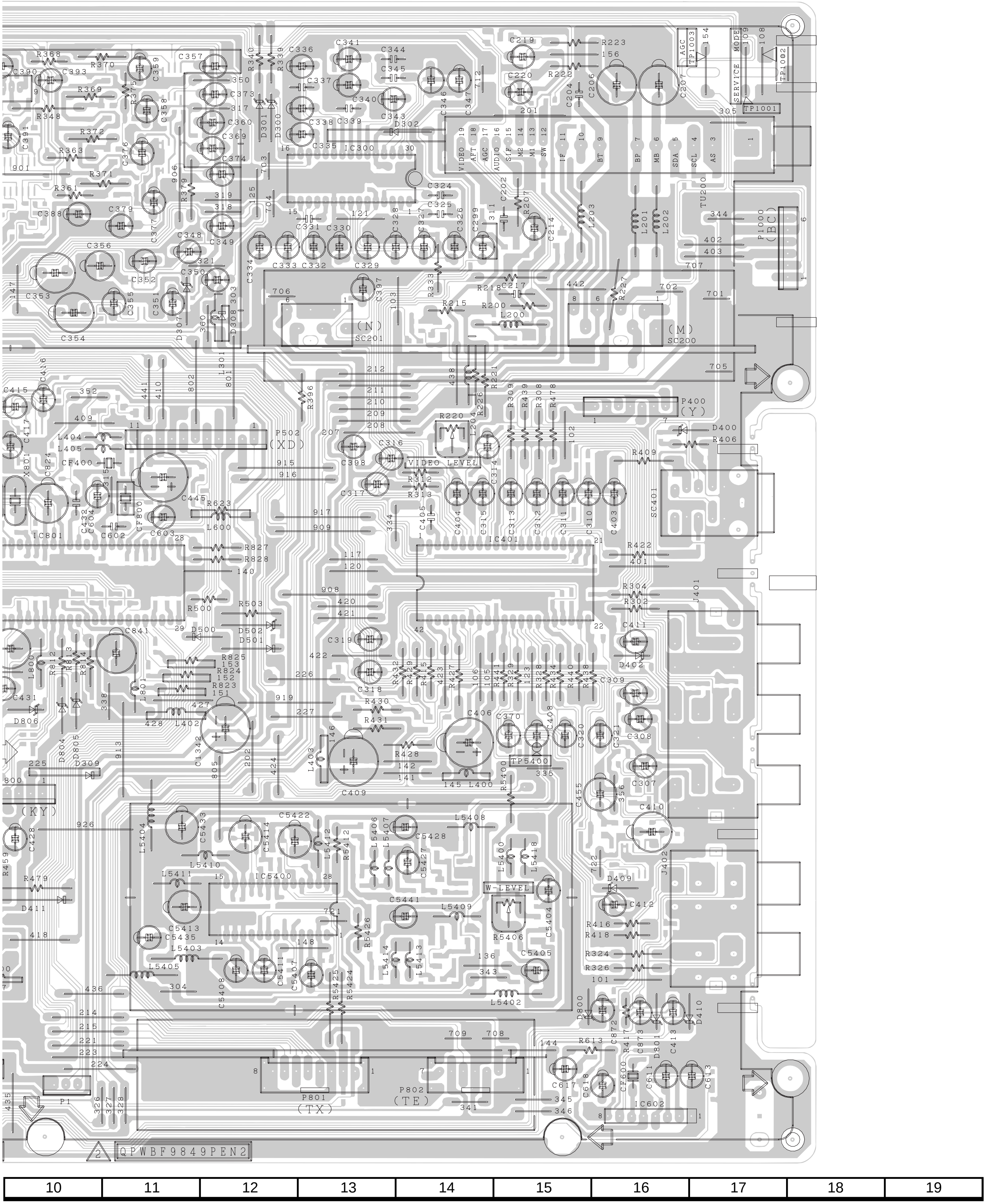
PRINTED WIRING BOARD ASSEMBLIES

印刷电路版的组装件

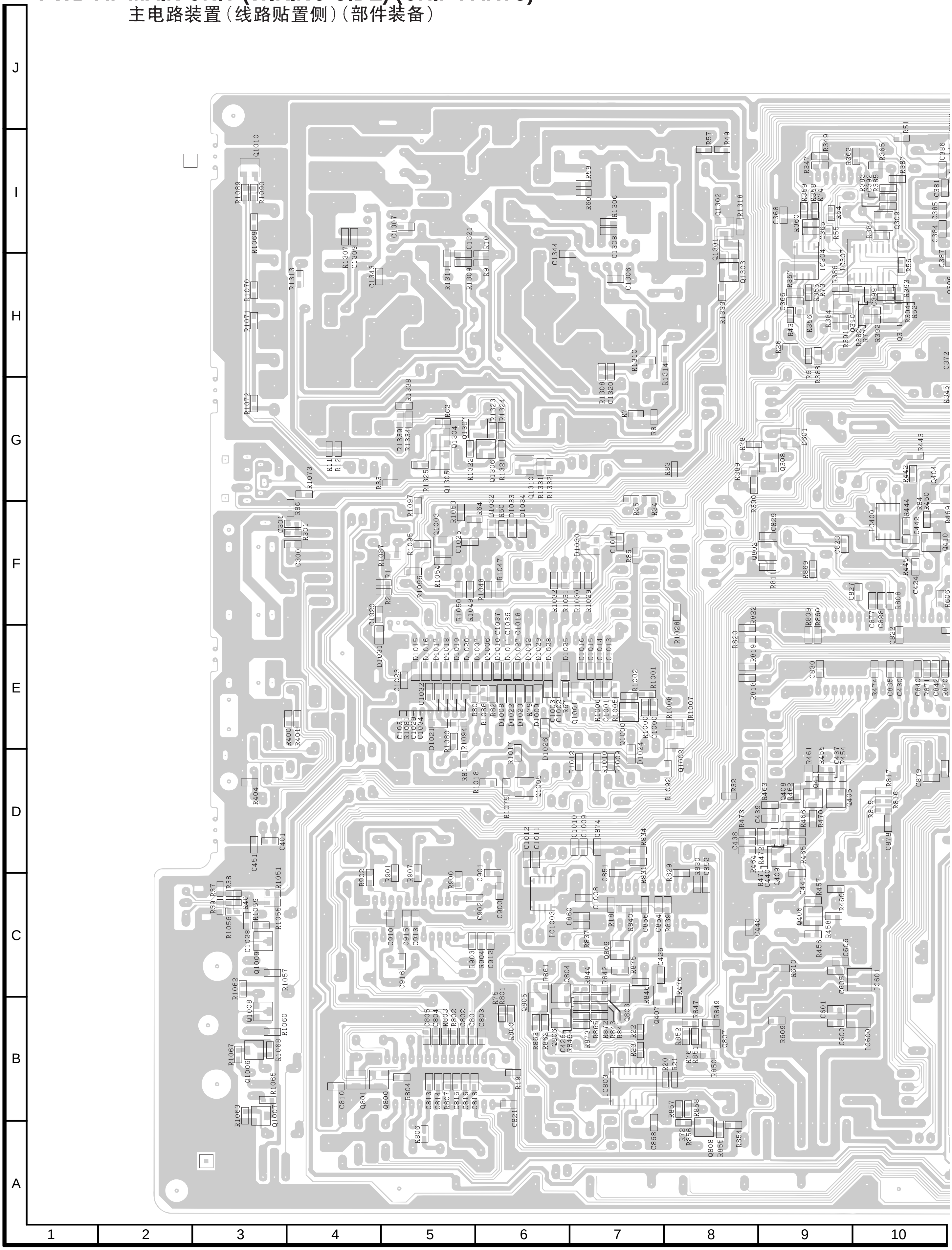
PWB-A: MAIN UNIT (WIRING SIDE)

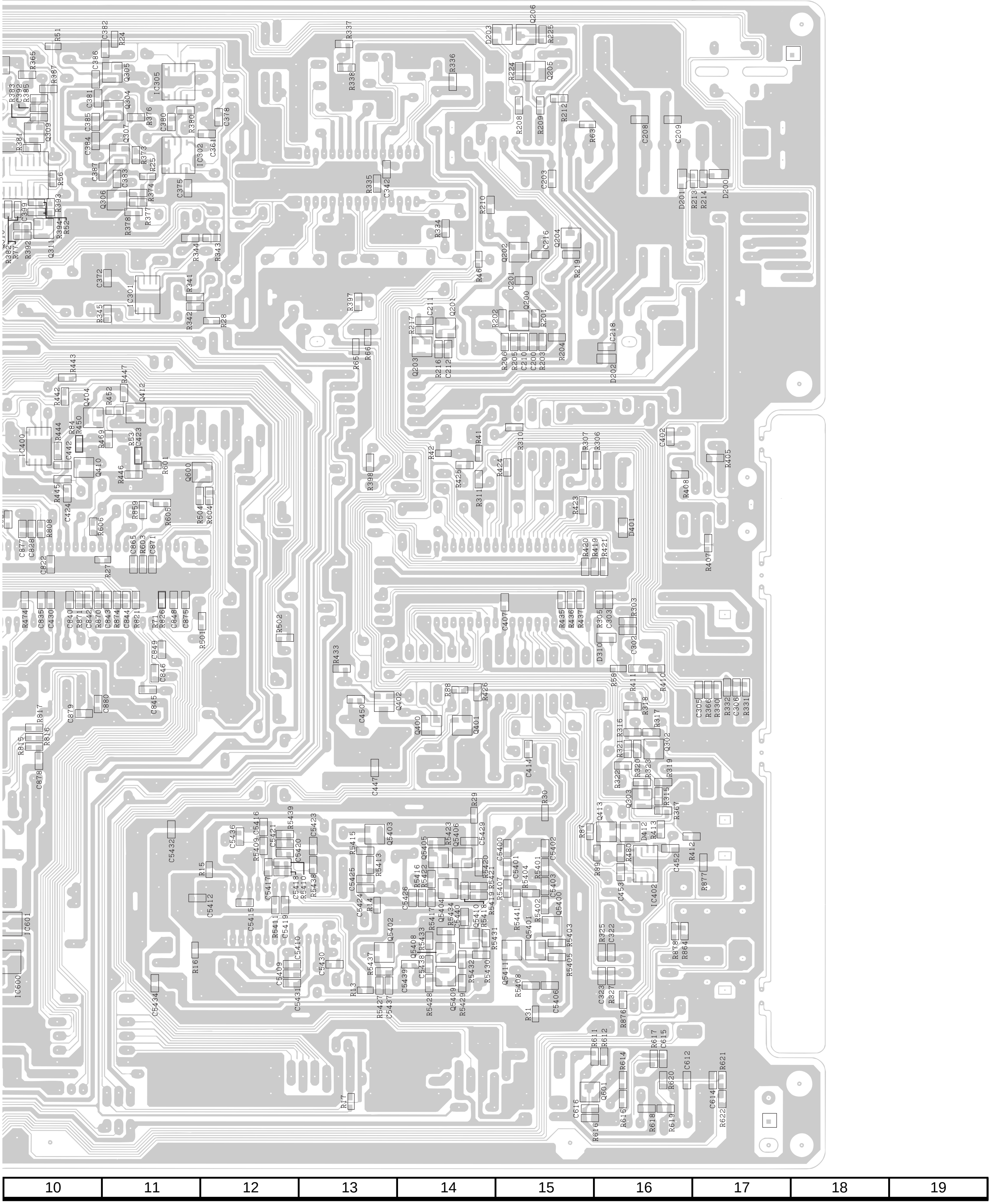
主电路装置(线路贴置侧)


J
I
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
P1301 (SS)
P1302 (SI)
P1300 (XB)
J300
J400
P401 (Y)
IC1300
IC1001
IC1002
IC1000
IC303
IC900
IC800
IC802
IC801
P800 (KY)
P600 (XC)
P1001 (XA)
P1
RMC1000
D1000
D1001
D1002
L1301
L1309
L1300
L1308
T1000
L1000
L1001
X900
X800
X801
TP901
TP902
TP903
Q1004
Q1011
SC400
CF1000
CF400
RDA1301
RDA1300
S1000
S1001
S1002
S1003
S1004
C400
D407
R403
R402
D408
C1027
R1058
R1061
R1066
R1064
C619
L804
D803
D807
D806
D804
D805
D309
R468
R479
D411
C444
C443
C836
C831
C832
C833
C834
C881
C825
C826
C824
C415
C416
C417
C418
C353
C354
C388
C390
C391
C393
C394
C367
R368
R369
R348
R363
R361
DIP
DUNTK9849WE


IC300
IC401
IC801
IC5400
IC602
TU200
SC201
SC200
(N)
(M)
P502
(XD)
P400
(Y)
P1000
(BC)
SC401
J401
J402
P801
(TX)
P802
(TE)
P1
(KY)
TP1001
TP1002
TP1003
AGC
SERVICE MODE
TP5400
VIDEO LEVEL
W-LEVEL
R220
R5406
VIDEO
AFT
AGC
AUDIO
SIF
M2
M1
SW
IF
BT
BP
MB
SDA
SCL
AS
QPWBF9849PEN2
10
11
12
13
14
15
16
17
18
19

PWB-A: MAIN UNIT (WIRING SIDE) (CHIP PARTS)
主电路装置（线路贴置侧）（部件装备）


J
I
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10


R51
C382
R24
R365
R387
C386
Q305
R383
R385
C381
Q304
IC305
R376
C380
R380
C378
Q309
C385
Q307
R384
C384
R373
IC302
C361
R337
R338
R336
D203
Q206
R225
R224
Q205
R212
R208
R209
R63
C208
C209
C387
C383
R25
R56
R374
C375
R335
C342
R393
Q306
R377
R378
C399
R394
R52
R392
Q311
R344
R343
R334
R210
C203
D201
R213
R214
D200
C216
Q204
Q202
R46
R219
C201
C372
R341
IC301
R345
R342
R28
R397
C211
Q201
R217
R202
Q200
R201
C218
R65
R66
Q203
R216
C212
R206
R205
C210
C200
R203
R204
D202
R443
R447
R442
Q404
R452
Q412
R444
R84
R450
IC400
C442
R469
R53
C423
Q410
R446
R601
Q600
R445
C424
R606
R859
R605
R504
R604
R808
C877
C828
C865
R603
C871
C822
R27
R310
R41
R307
R306
C402
R42
R424
R405
R425
R398
R311
R408
R423
D401
R420
R419
R421
R407
R474
C835
C430
C840
R871
C842
R870
C843
R874
C844
R821
R71
R826
C848
C875
R501
R502
C407
R435
R436
R437
R305
C303
R303
D310
C302
C849
C846
R433
R58
R411
R410
C845
C880
C879
R817
R815
R816
C878
C450
Q402
R88
R426
Q400
Q401
C305
R366
R330
R332
C306
R331
R318
R317
R316
R321
Q302
C414
C447
R322
R320
R323
R319
Q303
R315
R29
R30
R367
Q413
D412
R413
R87
R412
C452
R480
R89
C453
IC402
R877
C5432
C5436
R5409
C5416
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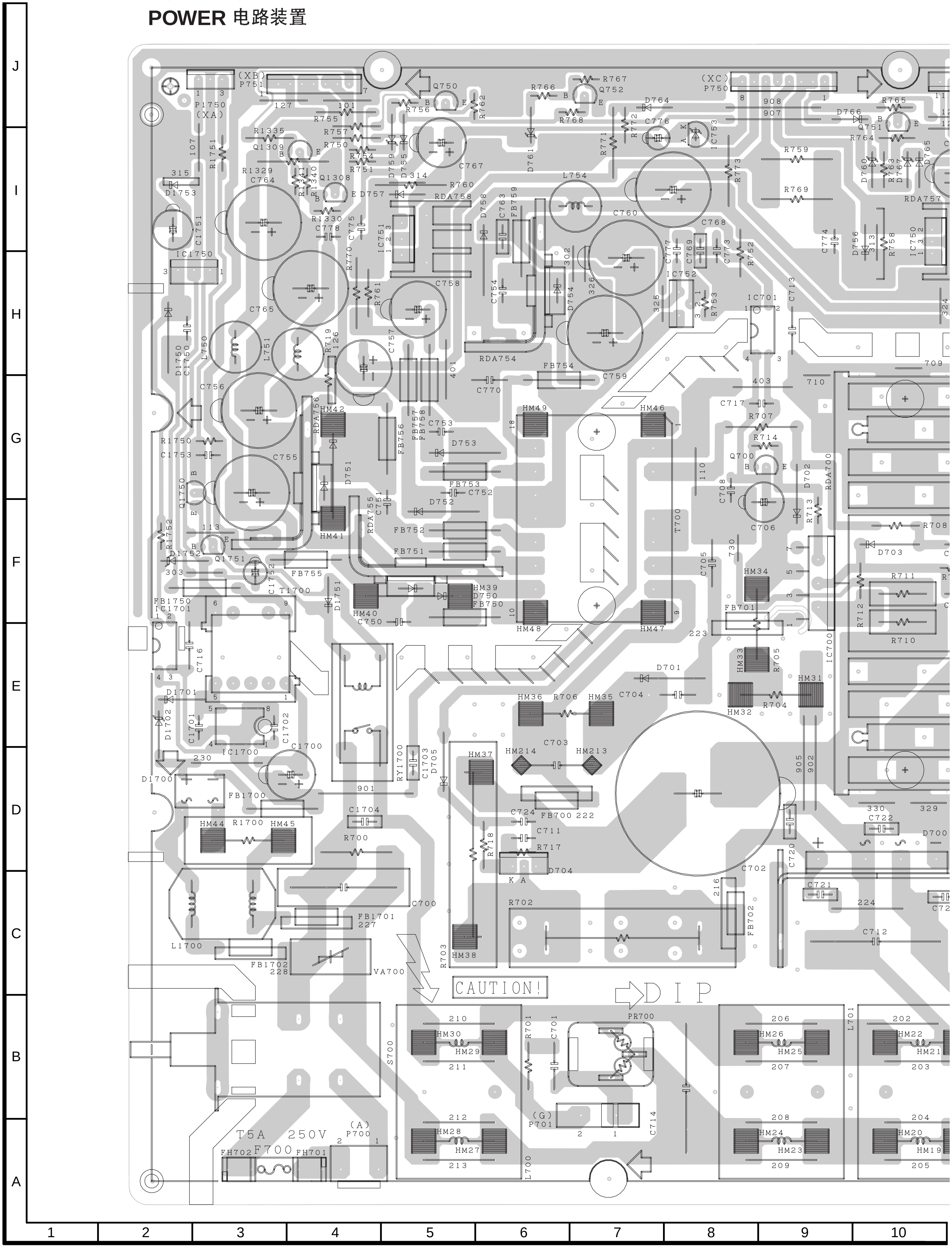
PWB-B: POWER UNIT
POWER 电路装置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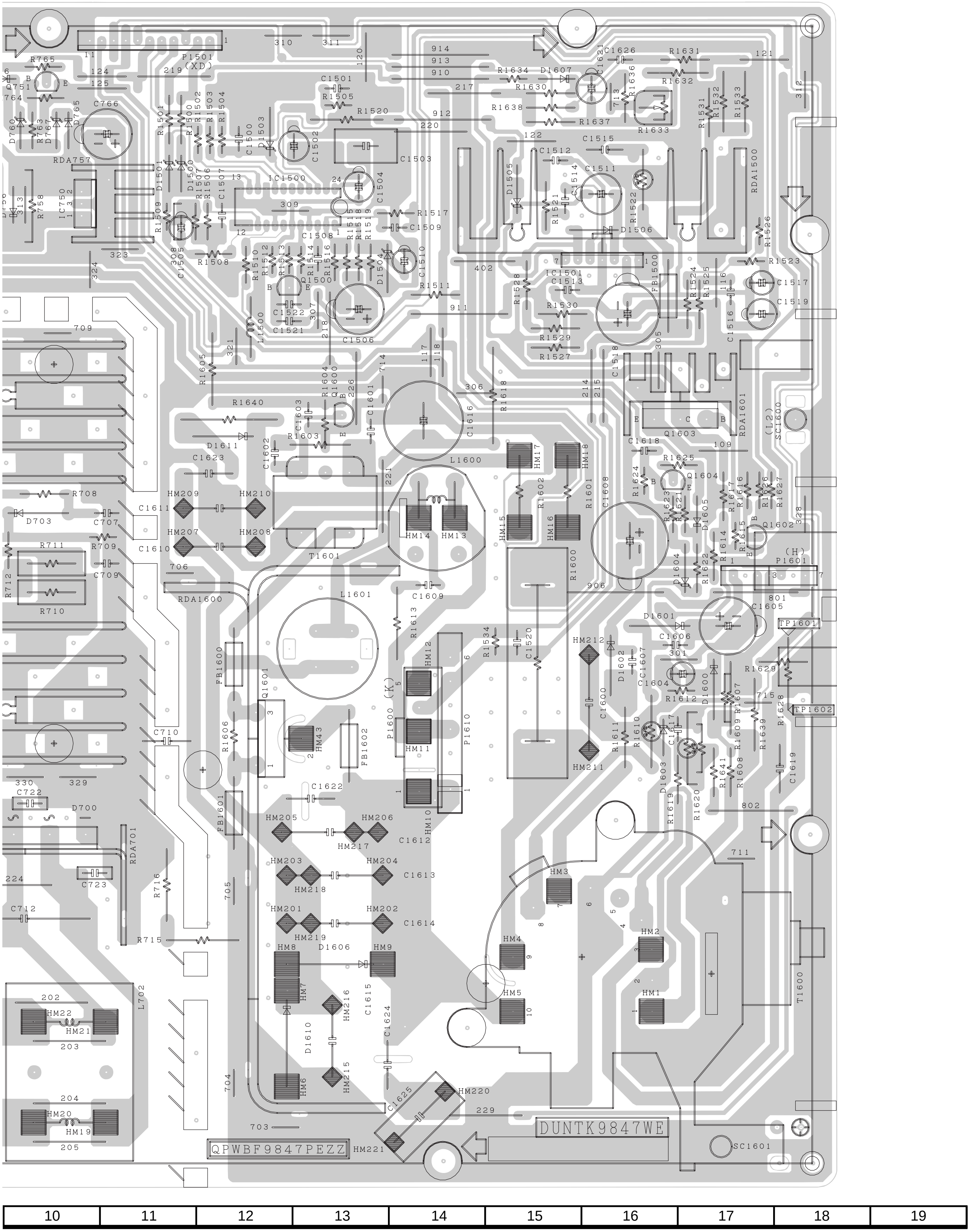
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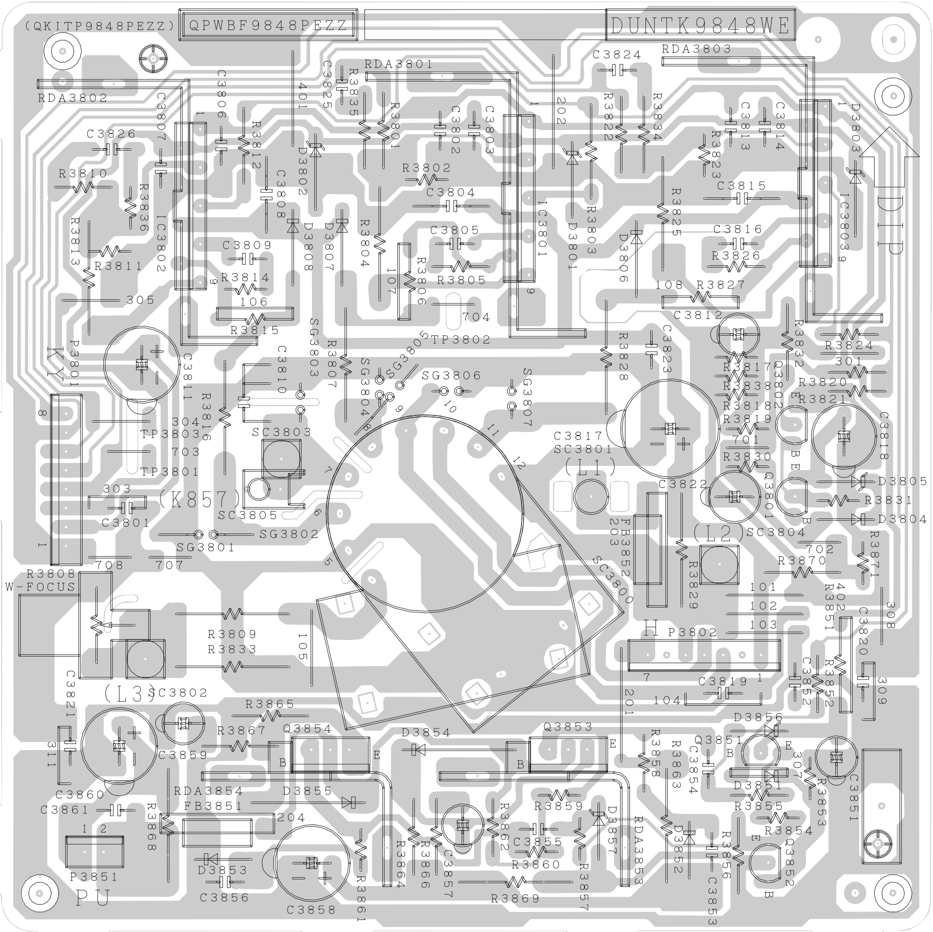
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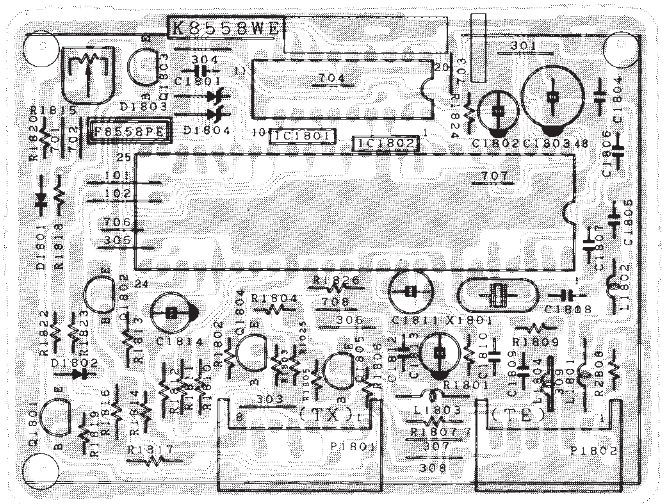
PWB-C: CRT UNIT

CRT电路装置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(TE)
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X1801
Q1801
Q1802
Q1803

PWB-E: TEXT UNIT

TEXT 电路装置

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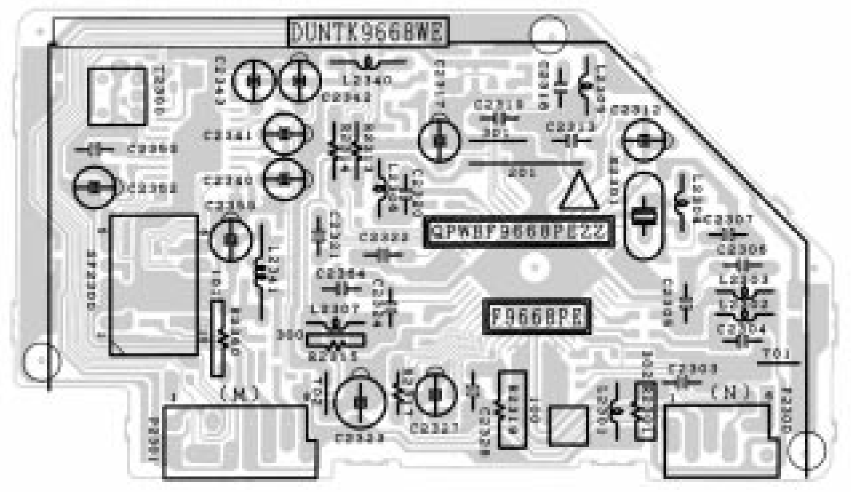
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C2308
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C2304
C2309
C2303
C2333
C2327
C2328
P2301
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(M)
(N)

PWB-D: NICAM/IGR UNIT (WIRING SIDE)
NICAM/IGR 电路装置(线路贴置侧)

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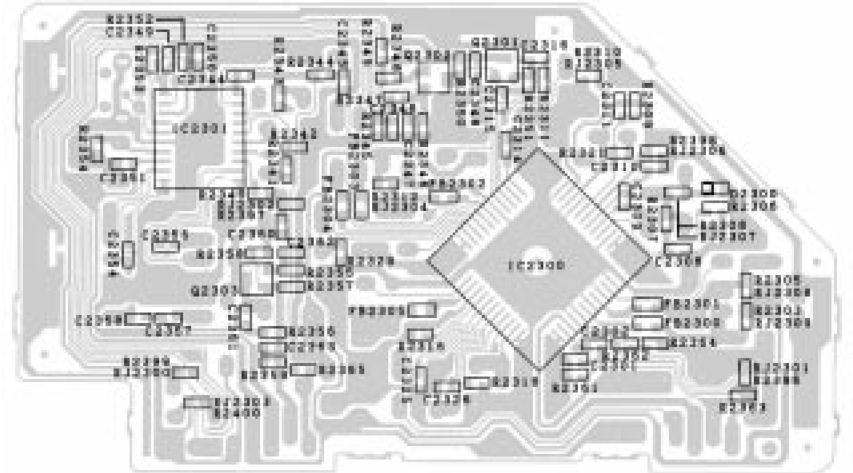
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C2308
FB2301
FB2302
FB2305
R2354
R2363
R2355
R2356
R2357
R2399
R2400
R2329

B

PWB-D: NICAM/IGR UNIT (WIRING SIDE) (CHIP PARTS)
NICAM/IGR 电路装置(线路贴置侧)(部件装备)

A

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- M E M O -

REPLACEMENT PARTS LIST

PARTS REPLACEMENT

Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "⚠" in the Replacement Parts Lists.
The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER **2. REF. NO.**
3. PART NO. **4. DESCRIPTION**

更换零件表

更换零件

本维修手册对具有特别安全要求的零件均用标记加以识别：
在此更换零件表中，具有特别安全要求的电路元件均用 ⚠ 标记，以便注意识别。更换零件时，为了用户的安全以及电视机原有的工作性能，务请使用夏普规定零件。否则，可能有导致触电、火灾或其他不测事故发生的可能。

更换零件的订货方法

为了能迅速而确实地接受订货、以及正确无误地按时交货，在订货时请将下列各项明确告知。

1. 型号 **2. 参考编号**
3. 零件编号 **4. 零件名称**

MARK ★ : SPARE PARTS-DELIVERY SECTION.

附★记号为备用部件的交货部门

PICTURE TUBE

Ref. No.	Part No.	★	Description	Code
⚠	VB68KYN690X*S	R	Picture Tube	CV
⚠	RCiLG0051PEZZ	R	ADG Coil	AV
⚠ DY	RCiLH0110PEN1	R	Deflection Yoke	BQ
	LHLDW0003PEKZ	R	ADG Coil Holder, x 4	AB
	LHLDW1075PEKZ	R	ADG Fix Holder	AC
	PMAGF3038CEZZ	R	Purity Magnat	AL
	PMAGG3002CEZZ	R	Magnet	AC
	PSPAG0003PEZZ	R	Wedge (Gum), x 3	AD
⚠	QEARC2901PEZZ	R	Grounding Strap	AK

PRINTED WIRING BOARD ASSEMBLIES *(NOT REPLACEMENT ITEM)*

Ref. No.	Part No.	★	Description	Code
PWB-A	DUNTK9849FMV0	-	Main Unit(29A-SX8B)	—
PWB-A	DUNTK9849WEV1	-	Main Unit(29A-SX5C/5Z)	—
PWB-A	DUNTK9849FMV2	-	Main Unit(29A-SX1F/1G)	—
PWB-B	DUNTK9847FMV0	-	Power Unit(29A-SX8B)	—
PWB-B	DUNTK9847FMV1	-	Power Unit(29A-SX5C)	—
PWB-B	DUNTK9847FMV2	-	Power Unit(29A-SX1F/1G)	—
PWB-B	DUNTK9847FMV4	-	Power Unit(29A-SX5Z)	—
PWB-C	DUNTK9848FMV0	-	CRT Unit	—
PWB-D	DUNTK9668FMV4	-	NICAM/IGR Unit (29A-SX8B)	—
PWB-D	DUNTK9668FMV5	-	NICAM/IGR Unit (29A-SX5C/5Z)	—
PWB-E	DUNTK8558FMV8	-	TEXT Unit(29A-SX5C/5Z)	—

PWB-A DUNTK9849FMV0(29A-SX8B)
PWB-A DUNTK9849WEV1(29A-SX5C/5Z)
PWB-A DUNTK9849FMV2(29A-SX1F/1G)
MAIN UNIT

TUNER

NOTE: THE PARTS HERES SHOWN ARE SUPPLIED AS AN ASSEMBLY NOT INDEPENDENTLY.

Ref. No.	Part No.	★	Description	Code
⚠ TU200	VTUVTBT6ED265	R	VHF Tuner	BH

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC300	VHiAN7396K/-1	R	AN7396K	BC
IC301	VHiNJM2168M-1	R	NJM2168M	AH
IC302	VHiBA7655AF-1	R	BA7655AF	AG
IC303	RH-iX3232CEZZ	R	IX3232CE	AV
IC304	VHiNJM4560M-1	R	NJM4560M	AG
IC305	VHiBA7655AF-1	R	BA7655AF	AG
IC307	VHiTC4066BF1E	R	TC4066BF	AF
IC400	VHiNJM2534M-1	R	NJM2534M	AF
IC401	VHiTA1218AN-1	R	TA1218AN	AX
IC402	VHiNJM2243M-1	R	NJM2243M	AF
IC600	VHiNJ78L09U-1	R	NJM78L09UA	AE
IC601	VHiNJ78L12U-1	R	NJ78L12U	AE
IC602	VHiM51497L/-1	R	M51497L	AL
IC800	VHiTA8772AN-1	R	TA8772AN	AV
IC801	RH-iX3323CEZZ	R	IX3323CE	BB
IC802	VHiAN5385K/-1	R	AN5385K	AV
IC803	VHiNJM2284M-1	R	NJM2284M	AF
IC900	VHiTA1229N/-1	R	TA1229N	AX
IC1000	RH-iX3275CEN2	R	IX3275CE	AZ
IC1001	VHiM24C08B/-1	R	M24C08B	AM
IC1002	VHiPST994C/-1	R	PST994C	AD
IC1003	VHiM62334FP-1	R	M62334FP	AH
IC1300	VHiTDA7482/-1	R	TDA7482, R-Out	AR
IC1301	VHiTDA7482/-1	R	TDA7482, L-Out	AR
IC5400	VHiTC9090AN-1	R	TC9090AN	BC

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q200	VS2SB709A//-1	R	2SB709A	AA
Q201	VS2SD601A//-1	R	2SD601A	AC
Q202	VS2SD601A//-1	R	2SD601A	AC
Q203	VS2SB709A//-1	R	2SB709A	AA
Q204	VS2SD601A//-1	R	2SD601A	AC
Q205	VS2SD601A//-1	R	2SD601A	AC
Q206	VS2SD601A//-1	R	2SD601A	AC
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Q303	VS2SD601A//-1	R	2SD601A	AC
Q304	VS2SD601A//-1	R	2SD601A	AC
Q305	VS2SD601A//-1	R	2SD601A	AC
Q306	VS2SD601A//-1	R	2SD601A	AC
Q307	VS2SD601A//-1	R	2SD601A	AC
Q308	VS2SD601A//-1	R	2SD601A	AC
Q309	VS2SD601A//-1	R	2SD601A	AC
Q310	VS2SD601A//-1	R	2SD601A	AC
Q311	VS2SD601A//-1	R	2SD601A	AC
Q400	VS2SD601A//-1	R	2SD601A	AC

Ref. No.	Part No.	★	Description	Code
Q401	VS2SD601A//-1	R	2SD601A	AC
Q402	VS2SD601A//-1	R	2SD601A	AC
Q404	VS2SD601A//-1	R	2SD601A	AC
Q405	VS2SD601A//-1	R	2SD601A	AC
Q406	VS2SB709A//-1	R	2SB709A	AA
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Q408	VS2SD601A//-1	R	2SD601A	AC
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Q410	VS2SB709A//-1	R	2SB709A	AA
Q411	VS2SD601A//-1	R	2SD601A	AC
Q412	VSUN2213///-1	R	UN2213	AA
Q413	VS2SB709A//-1	R	2SB709A	AA
Q600	VS2SD601A//-1	R	2SD601A	AC
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Q803	VS2SB709A//-1	R	2SB709A	AA
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Q1001	VS2SD601A//-1	R	2SD601A	AC
Q1002	VS2SD601A//-1	R	2SD601A	AC
Q1003	VS2SD601A//-1	R	2SD601A	AC
Q1004	VS2SK583///-1	R	2SK583	AE
Q1005	VS2SD601A//-1	R	2SD601A	AC
Q1006	VS2SD601A//-1	R	2SD601A	AC
Q1007	VS2SD601A//-1	R	2SD601A	AC
Q1008	VS2SB709A//-1	R	2SB709A	AA
Q1009	VS2SB709A//-1	R	2SB709A	AA
Q1010	VS2SB709A//-1	R	2SB709A	AA
Q1011	VS2SK583///-1	R	2SK583	AE
Q1301	VS2SD601A//-1	R	2SD601A	AC
Q1302	VS2SD601A//-1	R	2SD601A	AC
Q1303	VS2SB709A//-1	R	2SB709A	AA
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Q5409	VS2SD601A//-1	R	2SD601A	AC
Q5410	VS2SD601A//-1	R	2SD601A	AC
Q5411	VS2SD601A//-1	R	2SD601A	AC

DIODES AND LED'S

Ref. No.	Part No.	★	Description	Code
D200	RH-EX0260TAZZ	R	Zener Diode	AC
D201	RH-EX0260TAZZ	R	Zener Diode	AC
D202	RH-EX0260TAZZ	R	Zener Diode, 6.2V	AC
D203	VHDDAP202K/-1	R	DAP202K	AB
D300	RH-EX0615GEZZ	R	Zener Diode, 5.6V	AA
D301	RH-EX0615GEZZ	R	Zener Diode, 5.6V	AA
D302	RH-DX0475CEZZ	R	DX0475CE	AB
D307	RH-EX0613GEZZ	R	Zener Diode, 5.1V	AA
D308	RH-DX0475CEZZ	R	DX0475CE	AB
D309	RH-DX0475CEZZ	R	DX0475CE	AB
D310	RH-EX0264TAZZ	R	Zener Diode, 9.2V	AC
D400	RH-EX0631GEZZ	R	Zener Diode, 9.1V	AA
D401	RH-EX0264TAZZ	R	Zener Diode, 9.2V	AC
D402	RH-EX0631GEZZ	R	Zener Diode, 9.1V	AA
D405	RH-DX0475CEZZ	R	DX0475CE	AB
D406	RH-EX0628GEZZ	R	Zener Diode, 8.2V	AC
D407	RH-EX0631GEZZ	R	Zener Diode, 9.3V	AA
D408	RH-EX0631GEZZ	R	Zener Diode, 9.3V	AA
D409	RH-EX0631GEZZ	R	Zener Diode, 9.1V	AA
D410	RH-EX0631GEZZ	R	Zener Diode, 9.1V	AA
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D500	RH-DX0475CEZZ	R	DX0475CE	AB
D501	RH-DX0475CEZZ	R	DX0475CE	AB
D502	RH-EX0610GEZZ	R	Zener Diode, 4.8V	AA
D600	RH-DX0475CEZZ	R	DX0475CE	AB
D601	VHDDAP202K/-1	R	DAP202K	AB
D603	RH-EX0604GEZZ	R	Zener Diode, 4.0V	AB
D604	RH-EX0604GEZZ	R	Zener Diode, 4.0V	AB
D605	RH-DX0475CEZZ	R	DX0475CE	AB
D606	RH-EX0610GEZZ	R	Zener Diode, 4.7V	AA
D607	RH-EX0623GEZZ	R	Zener Diode, 7V	AA
D608	RH-DX0475CEZZ	R	DX0475CE	AB
D609	RH-DX0475CEZZ	R	DX0475CE	AB
D800	RH-EX0631GEZZ	R	Zener Diode, 9.1V	AA
D801	RH-EX0631GEZZ	R	Zener Diode, 9.1V	AA
D802	RH-EX0631GEZZ	R	Zener Diode, 9.1V	AA
D803	RH-EX0631GEZZ	R	Zener Diode, 9.1V	AA
D807	RH-EX0631GEZZ	R	Zener Diode, 9.1V	AA
D1000	RH-PX0274CEZZ	R	LED, Save	AC
D1001	RH-PX0274CEZZ	R	LED, On Timer	AC
D1002	RH-PX0414CEZZ	R	LED, Power On/Off	AE
D1003	RH-DX0475CEZZ	R	DX0475CE	AB
D1004	RH-DX0475CEZZ	R	DX0475CE	AB
D1006	RH-EX0260TAZZ	R	Zener Diode	AC
D1007	RH-EX0260TAZZ	R	Zener Diode	AC
D1008	RH-EX0260TAZZ	R	Zener Diode	AC
D1009	RH-EX0260TAZZ	R	Zener Diode	AC
D1010	RH-EX0260TAZZ	R	Zener Diode	AC
D1011	RH-EX0260TAZZ	R	Zener Diode	AC
D1012	RH-EX0260TAZZ	R	Zener Diode	AC
D1015	RH-EX0260TAZZ	R	Zener Diode	AC
D1016	RH-EX0260TAZZ	R	Zener Diode	AC
D1017	RH-EX0260TAZZ	R	Zener Diode	AC
D1018	RH-EX0260TAZZ	R	Zener Diode	AC
D1019	RH-EX0260TAZZ	R	Zener Diode	AC
D1020	RH-EX0260TAZZ	R	Zener Diode	AC
D1021	RH-EX0260TAZZ	R	Zener Diode	AC
D1022	RH-EX0260TAZZ	R	Zener Diode	AC
D1023	RH-EX0260TAZZ	R	Zener Diode	AC
D1024	RH-EX0260TAZZ	R	Zener Diode	AC
D1025	RH-EX0260TAZZ	R	Zener Diode	AC
D1026	RH-EX0260TAZZ	R	Zener Diode	AC
D1027	RH-EX0260TAZZ	R	Zener Diode (29A-SX5C/8B)	AC
D1028	RH-EX0260TAZZ	R	Zener Diode	AC
D1029	RH-EX0260TAZZ	R	Zener Diode	AC
D1030	VHDDAN202K/-1	R	DAN202K	AB
D1031	RH-EX0260TAZZ	R	Zener Diode, 6.2V	AC
D1032	RH-EX0260TAZZ	R	Zener Diode	AC
D1033	RH-EX0260TAZZ	R	Zener Diode	AC
D1034	RH-EX0260TAZZ	R	Zener Diode	AC
D1304	RH-DX0475CEZZ	R	DX0475CE	AB
D1305	RH-DX0475CEZZ	R	DX0475CE	AB
D1311	RH-EX0619GEZZ	R	Zener Diode, 6.2V	AA
D1312	RH-EX0619GEZZ	R	Zener Diode, 6.2V	AA
D1313	RH-EX0612GEZZ	R	Zener Diode, 5.1V	AA
D1314	RH-EX0723GEZZ	R	Zener Diode, 3.3V	AB

CRYSTALS

Ref. No.	Part No.	★	Description	Code
X800	RCRSB0278CEZZ	R	Crystal, CRSB0278CE, 4.43MHz	AG
X801	RCRSB0277CEZZ	R	Crystal, CRSB0277CE, 3.58MHz	AG
X900	RCRSB0004PEZZ	R	Crystal, CRSB0004PE 4MHz	AH

FILTERS

Ref. No.	Part No.	★	Description	Code
CF600	RFiLA0020CEZZ	R	Filter, 500MHz	AD
CF800	RFiLA0034CEZZ	R	Filter, 503MHz	AD
CF1000	RFiLA0084CEZZ	R	Filter	AE

COILS

Ref. No.	Part No.	★	Description	Code
L200	VP-XF390K0000	R	Peaking, 39µH	AB
L201	VP-CF270K0000	R	Peaking, 27µH	AB
L202	VP-CF270K0000	R	Peaking, 27µH	AB
L203	VP-CF270K0000	R	Peaking, 27µH	AB
L300	VP-XF101K0000	R	Peaking, 100µH	AB
L400	VP-DF100K0000	R	Peaking, 10µH	AB

Ref. No.	Part No.	★	Description	Code
L401	VP-DF101K0000	R	Peaking, 100µH	AB
L402	VP-DF101K0000	R	Peaking, 100µH	AB
L404	VP-XF220K0000	R	Peaking, 22µH	AB
L405	VP-XF180K0000	R	Peaking, 18µH	AB
L800	VP-DF120K0000	R	Peaking, 12µH	AB
L801	VP-DF120K0000	R	Peaking, 12µH	AB
L803	VP-DF101K0000	R	Peaking, 100µH	AB
L804	VP-DF101K0000	R	Peaking, 100µH	AB
L805	VP-DF101K0000	R	Peaking, 100µH	AB
L806	VP-DF101K0000	R	Peaking, 100µH	AB
L807	VP-DF101K0000	R	Peaking, 100µH	AB
L900	VP-XF6R8K0000	R	Peaking, 6.8µH	AB
L1000	VP-XF1R0K0000	R	Peaking, 1µH	AB
L1001	VP-DF270K0000	R	Peaking, 27µH	AB
L1300	RCiLP0016PEZZ	R	Coil, 47µH	AK
L1301	RCiLP0016PEZZ	R	Coil, 47µH	AK
L1302	RCiLP0299CEZZ	R	Coil, CLiP0299CE	AF
L1303	RCiLP0299CEZZ	R	Coil, CLiP0299CE	AF
L1304	RCiLP0299CEZZ	R	Coil, CLiP0299CE	AF
L1305	RCiLP0299CEZZ	R	Coil, CLiP0299CE	AF
L5400	VP-XF330K0000	R	Peaking, 33µH	AB
L5402	VP-CF101K0000	R	Peaking, 100µH	AB
L5403	VP-CF101K0000	R	Peaking, 100µH	AB
L5404	VP-CF101K0000	R	Peaking, 100µH	AB
L5405	VP-CF101K0000	R	Peaking, 100µH	AB
L5406	VP-XF470K0000	R	Peaking, 47µH	AB
L5407	VP-XF470K0000	R	Peaking, 47µH	AB
L5408	VP-DF101K0000	R	Peaking, 100µH	AB
L5409	VP-DF101K0000	R	Peaking, 100µH	AB
L5410	VP-DF101K0000	R	Peaking, 100µH	AB
L5411	VP-DF101K0000	R	Peaking, 100µH	AB
L5412	VP-DF101K0000	R	Peaking, 100µH	AB
L5413	VP-XF270K0000	R	Peaking, 27µH	AB
L5418	VP-XF330K0000	R	Peaking, 33µH	AB
T1000	RCiLB0029PEZZ	R	Oscillation Coil	AE

CONTROLS

Ref. No.	Part No.	★	Description	Code
R220	RVR-M4620GEZZ	R	Variable Resistor	AB
R5406	RVR-M4619GEZZ	R	Variable Resistor	AB

CAPACITORS

Ref. No.	Part No.	★	Description	Code
C200	VCCCCY1HH150J	R	15p 50V Ceramic	AA
C201	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C202	VCQYTA1HM222J	R	2200p 50V Mylar	AA
C203	VCKYCY1HF103Z	R	0.01 50V Ceramic (29A-SX5C/8B)	AA
C204	VCQYTA1HM102J	R	1000p 50V Mylar	AA
C206	VCEA0A1CW337M	R	330 16V Electrolytic	AC
C207	RC-EZ1203CEZZ	R	1000 10V Electrolytic	AE
C208	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C209	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C210	VCCCCY1HH180J	R	18p 50V Ceramic	AA
C214	VCEA0A1CW477M	R	470 16V Electrolytic	AC
C217	VCKYD41HB391K	R	390p 50V Ceramic	AA
C218	VCKYCY1CB683K	R	0.068 16V Ceramic	AC
C219	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C220	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C299	VCEA0A1CW106M	R	10 16V Electrolytic (29A-SX5C/8B)	AB
C300	VCKYCY1HB102K	R	1000p 50V Ceramic	AA
C301	VCKYCY1HB102K	R	1000p 50V Ceramic	AA
C302	VCKYCY1HB102K	R	1000p 50V Ceramic	AA
C303	VCKYCY1HB102K	R	1000p 50V Ceramic	AA
C305	VCKYCY1HB102K	R	1000p 50V Ceramic	AA
C306	VCKYCY1HB102K	R	1000p 50V Ceramic	AA
C307	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C308	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C309	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C310	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C311	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C312	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C313	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C314	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C315	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C316	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C317	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C318	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C319	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C320	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C321	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C322	VCKYCY1HB102K	R	1000p 50V Ceramic	AA
C323	VCKYCY1HB102K	R	1000p 50V Ceramic	AA
C324	VCQYTA1HM472J	R	4700p 50V Mylar	AB
C325	VCQYTA1HM472J	R	4700p 50V Mylar	AB
C326	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C327	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C328	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C329	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C330	VCEA0A1HW225M	R	2.2 50V Electrolytic	AB
C331	VCQYTA1HM103J	R	0.01 50V Mylar	AA
C332	VCEA0A1HW104M	R	0.1 50V Electrolytic	AB
C333	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C334	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C335	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C336	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C337	VCQYTA1HM103J	R	0.01 50V Mylar	AA
C338	VCEA0A1HW104M	R	0.1 50V Electrolytic	AB
C339	VCFYFA1HA684J	R	0.68 50V M.Polypro	AD
C340	VCEA0A1CW336M	R	33 16V Electrolytic	AB
C341	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C342	VCKYCY1CF104Z	R	0.1 16V Ceramic	AA
C343	VCEA0A1CW107M	R	100 16V Electrolytic	AC
C344	VCQYTA1HM103J	R	0.01 50V Mylar	AA
C345	VCQYTA1HM103J	R	0.01 50V Mylar	AA
C346	VCE9GA1CW226M	R	22 16V Electrolytic	AB
C347	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C348	VCEA0A1HW105M	R	1 50V Electrolytic	AB
C349	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C350	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C351	VCEA0A1HW105M	R	1 50V Electrolytic	AB
C352	VCEA0A1HW105M	R	1 50V Electrolytic	AB
C353	VCEA0A1CW337M	R	330 16V Electrolytic	AC
C354	VCEA0A1CW337M	R	330 16V Electrolytic	AC
C355	VCEA0A1HW105M	R	1 50V Electrolytic	AB
C356	VCEA0A1CW107M	R	100 16V Electrolytic	AC
C357	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C358	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C359	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C360	VCEA0A1CW107M	R	100 16V Electrolytic	AC
C361	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C365	VCKYCY1HB222K	R	2200p 50V Ceramic	AA
C366	VCKYCY1HB222K	R	2200p 50V Ceramic	AA
C367	VCEA0A1CW107M	R	100 16V Electrolytic	AC
C368	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C369	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C370	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C372	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C373	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C374	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C375	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C376	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C377	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C378	VCKYCY1CF104Z	R	0.1 16V Ceramic	AA
C379	VCEA0A1CW107M	R	100 16V Electrolytic	AC
C380	VCKYCY1CF104Z	R	0.1 16V Ceramic	AA
C381	VCKYCY1HB152K	R	1500p 50V Ceramic	AA
C382	VCKYCY1HB152K	R	1500p 50V Ceramic	AA
C383	VCKYCY1HB152K	R	1500p 50V Ceramic	AA
C384	VCKYCY1HB152K	R	1500p 50V Ceramic	AA
C385	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C386	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C387	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C388	VCEA0A1CW107M	R	100 16V Electrolytic	AC
C390	VCEA0A1CW476M	R	47 16V Electrolytic	AB
C391	VCEA0A1CW107M	R	100 16V Electrolytic	AC
C392	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C393	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C394	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C399	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C400	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C401	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C402	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C403	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C404	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C405	VCFYFA1HA104J	R	0.1 50V M.Polypro	AA

Ref. No.	Part No.	★	Description			Code
C406	VCEA0A1CW108M	R	1000	16V	Electrolytic	AD
C407	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C408	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C409	VCEA0A1CW108M	R	1000	16V	Electrolytic	AD
C410	VCEA0A1CW477M	R	470	16V	Electrolytic	AC
C411	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C412	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C413	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C414	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C415	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
			(29A-SX5C)			
C416	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C417	VCEA0A1CW107M	R	100	16V	Electrolytic	AC
C418	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C423	VCCCCY1HH820J	R	82p	50V	Ceramic	AA
C424	VCKYCY1CF104Z	R	0.1	16V	Ceramic	AA
C425	VCKYCY1CF104Z	R	0.1	16V	Ceramic	AA
C426	VCKYCY1CF104Z	R	0.1	16V	Ceramic	AA
C428	VCEA0A1CW226M	R	22	16V	Electrolytic	AB
C429	VCFYFA1HA334J	R	0.33	50V	M.Polypro	AB
C430	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C431	VCEA0A1HW105M	R	1	50V	Electrolytic	AB
C432	VCFYFA1HA104J	R	0.1	50V	M.Polypro	AA
C433	VCE9GA1CW106M	R	10	16V	Electrolytic	AB
C434	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C435	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C436	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C437	VCKYCY1EB822K	R	8200p	25V	Ceramic	AA
C438	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C439	VCCCCY1EH561J	R	560p	25V	Ceramic	AA
C440	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C441	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C442	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C443	VCEA0A1HW225M	R	2.2	50V	Electrolytic	AB
C444	VCEA0A1HW105M	R	1	50V	Electrolytic	AB
C445	RC-EZ1217CEZZ	R	470	10V	Electrolytic	AD
C446	VCEA0A1CW476M	R	47	16V	Electrolytic	AB
C447	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C451	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C452	VCKYCY1CF104Z	R	0.1	16V	Ceramic	AA
C453	VCKYCY1CF104Z	R	0.1	16V	Ceramic	AA
C455	VCEA0A1AW227M	R	220	10V	Electrolytic	AB
C600	VCKYCY1CF334Z	R	0.33	16V	Ceramic	AA
C601	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C602	VCQYTA1HM223J	R	0.022	50V	Mylar	AA
C603	VCEA0A1HW225M	R	2.2	50V	Electrolytic	AB
C604	VCEA0A1HW225M	R	2.2	50V	Electrolytic	AB
C605	VCKYCY1CF334Z	R	0.33	16V	Ceramic	AA
C606	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C607	VCEA0A1EW476M	R	47	25V	Electrolytic	AB
C608	VCEA0A1CW476M	R	47	16V	Electrolytic	AB
C609	VCEA0A1EW476M	R	47	25V	Electrolytic	AB
C610	VCEA0A1CW476M	R	47	16V	Electrolytic	AB
C611	VCEA0A1HW224M	R	0.22	50V	Electrolytic	AB
C612	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C613	VCEA0A1CW476M	R	47	16V	Electrolytic	AB
C614	VCKYCY1CF104Z	R	0.1	16V	Ceramic	AA
C615	VCKYCY1HB182K	R	1800p	50V	Ceramic	AA
C616	VCKYCY1HB102K	R	1000p	50V	Ceramic	AA
C617	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C618	VCEA0A1HW224M	R	0.22	50V	Electrolytic	AB
C800	VCEA0A1HW225M	R	2.2	50V	Electrolytic	AB
C801	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C802	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C803	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C804	VCKYCY1CF474Z	R	0.47	16V	Ceramic	AB
C805	VCKYCY1CF474Z	R	0.47	16V	Ceramic	AB
C806	VCEA0A1HW105M	R	1	50V	Electrolytic	AB
C807	VCEA0A1HW225M	R	2.2	50V	Electrolytic	AB
C808	VCEA0A1HW225M	R	2.2	50V	Electrolytic	AB
C809	RC-EZ1217CEZZ	R	470	10V	Electrolytic	AD
C810	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C811	VCEA0A1HW474M	R	0.47	50V	Electrolytic	AB
C812	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C813	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C814	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C815	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C816	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA

Ref. No.	Part No.	★	Description			Code
C817	VCEA0A1CW477M	R	470	16V	Electrolytic	AC
C818	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C819	VCEA0A1HW474M	R	0.47	50V	Electrolytic	AB
C820	VCEA0A1HW474M	R	0.47	50V	Electrolytic	AB
C821	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C822	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C823	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C824	RC-EZ1203CEZZ	R	1000	10V	Electrolytic	AE
C825	VCEA0A1HW224M	R	0.22	50V	Electrolytic	AB
C826	VCQYTA1HM222J	R	2200p	50V	Mylar	AA
C827	VCCCCY1HH120J	R	12p	50V	Ceramic	AA
C828	VCCCCY1HH100D	R	10p	50V	Ceramic	AA
C829	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C830	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C831	VCEA0A1HW225M	R	2.2	50V	Electrolytic	AB
C832	VCFYFA1HA104J	R	0.1	50V	M.Polypro	AA
C833	VCFYFA1HA104J	R	0.1	50V	M.Polypro	AA
C834	VCFYFA1HA104J	R	0.1	50V	M.Polypro	AA
C835	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C836	RC-EZ1217CEZZ	R	470	16V	Electrolytic	AD
C840	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C841	RC-EZ1217CEZZ	R	470	16V	Electrolytic	AD
C845	VCKYCY1CF104Z	R	0.1	16V	Ceramic	AA
C846	VCKYCY1CF104Z	R	0.1	16V	Ceramic	AA
C848	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C849	VCKYCY1CF104Z	R	0.1	16V	Ceramic	AA
C851	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C852	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C854	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C855	VCE9GA1HW335M	R	3.3	50V	Electrolytic	AB
C856	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C857	RC-EZ1217CEZZ	R	470	16V	Electrolytic	AD
C858	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C859	VCE9GA1HW335M	R	3.3	50V	Electrolytic	AB
C860	VCKYCY1CF104Z	R	0.1	16V	Ceramic	AA
C861	VCEA0A1CW226M	R	22	16V	Electrolytic	AB
C862	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C863	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C864	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C865	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C867	VCEA0A1AW227M	R	220	10V	Electrolytic	AB
C868	VCKYCY1CF104Z	R	0.1	16V	Ceramic	AA
C869	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C870	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C871	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C872	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C873	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C874	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C875	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C877	VCCCCY1HH1R0C	R	1p	50V	Ceramic	AA
C878	VCCCCY1HH470J	R	47p	50V	Ceramic	AA
C879	VCCCCY1HH470J	R	47p	50V	Ceramic	AA
C880	VCCCCY1HH470J	R	47p	50V	Ceramic	AA
C881	VCEA0A1HW105M	R	1	50V	Electrolytic	AB
C900	VCCCCY1HH470J	R	47p	50V	Ceramic	AA
C901	VCCCCY1HH101J	R	100p	50V	Ceramic	AA
C902	VCKYCY1HB102K	R	1000p	50V	Ceramic	AA
C903	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C904	VCQYTA1HM563J	R	0.056	50V	Mylar	AB
C905	VCQYTA1HM223J	R	0.022	50V	Mylar	AA
C906	VCQYTA1HM683J	R	0.068	50V	Mylar	AB
C907	VCEA0A1HW225M	R	2.2	50V	Electrolytic	AB
C908	VCEA0A1HW225M	R	2.2	50V	Electrolytic	AB
C909	VCQYTA1HM223J	R	0.022	50V	Mylar	AA
C910	VCCCCY1HH101J	R	100p	50V	Ceramic	AA
C911	VCFYFA1HA474J	R	0.47	50V	M.Polypro	AC
C912	VCCCCY1HH101J	R	100p	50V	Ceramic	AA
C913	VCCCCY1HH101J	R	100p	50V	Ceramic	AA
C914	VCEA0A1AW227M	R	220	10V	Electrolytic	AB
C915	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C916	VCCCCY1HH150J	R	15p	50V	Ceramic	AA
C917	VCFYFA1HA474J	R	0.47	50V	M.Polypro	AC
C1000	VCCCCY1HH560J	R	56p	50V	Ceramic	AA
C1001	VCCCCY1HH560J	R	56p	50V	Ceramic	AA
C1002	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C1003	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C1007	VCEA0A0JW476M	R	47	6.3V	Electrolytic	AB
C1008	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA

Ref. No.	Part No.	★	Description	Code
C1009	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C1010	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C1011	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C1012	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C1013	VCCCCY1HH220J	R	22p 50V Ceramic	AA
C1014	VCCCCY1HH220J	R	22p 50V Ceramic	AA
C1015	VCCCCY1HH220J	R	22p 50V Ceramic	AA
C1016	VCCCCY1HH220J	R	22p 50V Ceramic	AA
C1017	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C1019	VCEA0A1HW105M	R	1 50V Electrolytic	AB
C1020	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C1021	VCEA0A0JW107M	R	100 6.3V Electrolytic	AB
C1023	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C1024	VCEA0A0JW476M	R	47 6.3V Electrolytic	AB
C1025	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C1027	VCEA0A0JW107M	R	100 6.3V Electrolytic	AB
C1028	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C1029	VCKYCY1HB221K	R	220p 50V Ceramic	AA
C1030	VCEA0A1HW105M	R	1 50V Electrolytic	AB
C1033	VCEA0A0JW477M	R	470 6.3V Electrolytic	AC
C1034	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C1035	VCEA0A1CW107M	R	100 16V Electrolytic	AC
C1300	VCFYFA1HA474J	R	0.47 50V M.Polypro	AC
C1301	VCFYFA1HA474J	R	0.47 50V M.Polypro	AC
C1302	VCKYPA1HB561K	R	560p 50V Ceramic	AA
C1303	VCKYPA1HB561K	R	560p 50V Ceramic	AA
C1304	VCFYFA1HA104J	R	0.1 50V M.Polypro	AA
C1305	VCFYFA1HA104J	R	0.1 50V M.Polypro	AA
C1306	VCKYCY1HB472K	R	4700p 50V Ceramic	AA
C1307	VCKYCY1HB472K	R	4700p 50V Ceramic	AA
C1308	VCCCCY1HH271J	R	270p 50V Ceramic	AA
C1309	VCCCCY1HH271J	R	270p 50V Ceramic	AA
C1310	VCEA0H1VW228M	R	2200 35V Electrolytic	AH
C1311	VCEA0H1VW228M	R	2200 35V Electrolytic	AH
C1312	VCEA0H1VW228M	R	2200 35V Electrolytic	AH
C1313	VCEA0H1VW228M	R	2200 35V Electrolytic	AH
C1314	VCFYFA1HA104J	R	0.1 50V M.Polypro	AA
C1315	VCFYFA1HA104J	R	0.1 50V M.Polypro	AA
C1316	VCFYFA1HA104J	R	0.1 50V M.Polypro	AA
C1317	VCFYFA1HA104J	R	0.1 50V M.Polypro	AA
C1318	VCEA0A1HW105M	R	1 50V Electrolytic	AB
C1319	VCEA0A1HW105M	R	1 50V Electrolytic	AB
C1320	VCKYCY1HB102K	R	1000p 50V Ceramic	AA
C1321	VCKYCY1HB102K	R	1000p 50V Ceramic	AA
C1322	VCFYFA1HA334J	R	0.33 50V M.Polypro	AB
C1323	VCFYFA1HA334J	R	0.33 50V M.Polypro	AB
C1324	VCQYTA1HM822J	R	8200p 50V Mylar	AA
C1325	VCQYTA1HM822J	R	8200p 50V Mylar	AA
C1326	VCFYFA1HA104J	R	0.1 50V M.Polypro	AA
C1327	VCFYFA1HA104J	R	0.1 50V M.Polypro	AA
C1328	VCFYFA1HA104J	R	0.1 50V M.Polypro	AA
C1329	VCFYFA1HA104J	R	0.1 50V M.Polypro	AA
C1330	VCE9GA1CW106M	R	10 16V Electrolytic	AB
C1332	VCEA0A1CW337M	R	330 16V Electrolytic	AC
C1333	VCFYFA1HA154J	R	0.15 50V M.Polypro	AC
C1337	VCKYPA1HF103Z	R	0.01 50V Ceramic	AA
C1338	VCKYPA1HF103Z	R	0.01 50V Ceramic	AA
C1340	VCFYFA1HA154J	R	0.15 50V M.Polypro	AC
C1341	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C1342	VCEA0A1CW108M	R	1000 16V Electrolytic	AD
C5401	VCCCCY1HH150J	R	15p 50V Ceramic	AA
C5402	VCCCCY1HH560J	R	56p 50V Ceramic	AA
C5403	VCCCCY1HH150J	R	15p 50V Ceramic	AA
C5404	VCEA0A1HW106M	R	10 50V Electrolytic	AB
C5405	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C5406	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C5407	VCEA0A1HW474M	R	0.47 50V Electrolytic	AB
C5408	VCEA0A1HW106M	R	10 50V Electrolytic	AB
C5409	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C5410	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C5411	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C5412	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C5413	VCEA0A0JW477M	R	470 6.3V Electrolytic	AC
C5414	VCEA0A0JW477M	R	470 6.3V Electrolytic	AC
C5415	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C5416	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C5417	VCCCCY1HH181J	R	180p 50V Ceramic	AA
C5418	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C5419	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C5420	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C5421	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C5422	VCEA0A0JW477M	R	470 6.3V Electrolytic	AC
C5423	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C5424	VCCCCY1HH560J	R	56p 50V Ceramic	AA
C5425	VCCCCY1HH220J	R	22p 50V Ceramic	AA
C5426	VCCCCY1HH220J	R	22p 50V Ceramic	AA
C5427	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C5428	VCEA0A1HW106M	R	10 50V Electrolytic	AB
C5429	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C5430	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C5431	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C5432	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C5433	VCEA0A0JW477M	R	470 6.3V Electrolytic	AC
C5434	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C5435	VCEA0A1CW107M	R	100 16V Electrolytic	AC
C5436	VCCCCY1HH121J	R	120p 50V Ceramic	AA
C5437	VCCCCY1HH120J	R	12p 50V Ceramic	AA
C5438	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C5439	VCCCCY1HH390J	R	39p 50V Ceramic	AA
C5440	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C5441	VCEA0A1CW106M	R	10 16V Electrolytic	AB

RESISTORS

Ref. No.	Part No.	★	Description	Code
R200	VRD-RA2BE472J	R	4.7k 1/8W Carbon	AA
R202	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R203	VRS-CY1JF472J	R	4.7k 1/16W Metal Oxide	AA
R204	VRS-CY1JF123J	R	12k 1/16W Metal Oxide	AA
R205	VRS-CY1JF472J	R	4.7k 1/16W Metal Oxide	AA
R206	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R207	VRD-RA2BE472J	R	4.7k 1/8W Carbon	AA
R208	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R209	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R210	VRS-CY1JF222J	R	2.2k 1/16W Metal Oxide	AA
R212	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R213	VRS-CY1JF680J	R	68 1/16W Metal Oxide	AA
R214	VRS-CY1JF680J	R	68 1/16W Metal Oxide	AA
R215	VRD-RA2BE391J	R	390 1/8W Carbon	AA
R216	VRS-CY1JF391J	R	390 1/16W Metal Oxide	AA
R217	VRS-CY1JF221J	R	220 1/16W Metal Oxide	AA
R218	VRD-RA2BE473J	R	47k 1/8W Carbon	AA
R219	VRS-CY1JF473J	R	47k 1/16W Metal Oxide	AA
R221	VRD-RA2BE331J	R	330 1/8W Carbon	AA
R222	VRD-RA2BE103J	R	10k 1/8W Carbon	AA
R223	VRD-RA2BE103J	R	10k 1/8W Carbon	AA
R224	VRS-CY1JF473J	R	47k 1/16W Metal Oxide	AA
R225	VRS-CY1JF473J	R	47k 1/16W Metal Oxide	AA
R226	VRD-RA2EE100J	R	10 1/4W Carbon	AA
R300	VRD-RA2BE102J	R	1k 1/8W Carbon	AA
R301	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R302	VRD-RA2BE102J	R	1k 1/8W Carbon	AA
R303	VRS-CY1JF564J	R	560k 1/16W Metal Oxide	AA
R304	VRD-RA2BE102J	R	1k 1/8W Carbon	AA
R305	VRS-CY1JF564J	R	560k 1/16W Metal Oxide	AA
R306	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R307	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R308	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R309	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R310	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R311	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R312	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R313	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R315	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R316	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R317	VRS-CY1JF104J	R	100k 1/16W Metal Oxide	AA
R318	VRS-CY1JF561J	R	560 1/16W Metal Oxide	AA
R319	VRS-CY1JF104J	R	100k 1/16W Metal Oxide	AA
R320	VRS-CY1JF473J	R	47k 1/16W Metal Oxide	AA
R321	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R322	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R323	VRS-CY1JF473J	R	47k 1/16W Metal Oxide	AA
R324	VRD-RA2BE102J	R	1k 1/8W Carbon	AA
R325	VRS-CY1JF564J	R	560k 1/16W Metal Oxide	AA
R326	VRD-RA2BE102J	R	1k 1/8W Carbon	AA
R327	VRS-CY1JF564J	R	560k 1/16W Metal Oxide	AA
R328	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R329	VRD-RA2BE101J	R	100 1/8W Carbon	AB

Ref. No.	Part No.	★	Description	Code
R330	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R331	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R332	VRS-CY1JF564J	R	560k 1/16W Metal Oxide	AA
R333	VRD-RA2BE222J	R	2.2k 1/8W Carbon	AA
R334	VRS-CY1JF122J	R	1.2k 1/16W Metal Oxide	AA
R335	VRS-CY1JF224J	R	220k 1/16W Metal Oxide	AA
R336	VRS-CY1JF154J	R	150k 1/16W Metal Oxide	AA
R337	VRS-CY1JF122J	R	1.2k 1/16W Metal Oxide	AA
R338	VRS-CY1JF222J	R	2.2k 1/16W Metal Oxide	AA
R339	VRD-RA2BE271J	R	270 1/8W Carbon	AA
R340	VRD-RA2BE271J	R	270 1/8W Carbon	AA
R341	VRS-CY1JF471J	R	470 1/16W Metal Oxide	AA
R342	VRS-CY1JF472J	R	4.7k 1/16W Metal Oxide	AA
R343	VRS-CY1JF471J	R	470 1/16W Metal Oxide	AA
R344	VRS-CY1JF472J	R	4.7k 1/16W Metal Oxide	AA
R345	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R347	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R348	VRD-RA2BE100J	R	10 1/8W Carbon	AA
R349	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R356	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R357	VRS-CY1JF183J	R	18k 1/16W Metal Oxide	AA
R359	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R360	VRS-CY1JF183J	R	18k 1/16W Metal Oxide	AA
R361	VRD-RA2BE100J	R	10 1/8W Carbon	AA
R362	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R363	VRD-RA2BE100J	R	10 1/8W Carbon	AA
R365	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R366	VRS-CY1JF564J	R	560k 1/16W Metal Oxide	AA
R367	VRS-CY1JF561J	R	560 1/16W Metal Oxide	AA
R368	VRD-RA2BE100J	R	10 1/8W Carbon	AA
R369	VRD-RA2EE561J	R	560 1/4W Carbon	AA
R370	VRD-RA2EE561J	R	560 1/4W Carbon	AA
R371	VRD-RA2EE561J	R	560 1/4W Carbon	AA
R372	VRD-RA2EE561J	R	560 1/4W Carbon	AA
R373	VRS-CY1JF332J	R	3.3k 1/16W Metal Oxide	AA
R374	VRS-CY1JF332J	R	3.3k 1/16W Metal Oxide	AA
R375	VRD-RA2BE332J	R	3.3k 1/8W Carbon	AA
R376	VRS-CY1JF332J	R	3.3k 1/16W Metal Oxide	AA
R377	VRS-CY1JF222J	R	2.2k 1/16W Metal Oxide	AA
R378	VRS-CY1JF272J	R	2.7k 1/16W Metal Oxide	AA
R379	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R380	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R381	VRS-CY1JF182J	R	1.8k 1/16W Metal Oxide	AA
R382	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R383	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R384	VRS-CY1JF393J	R	39k 1/16W Metal Oxide	AA
R385	VRS-CY1JF393J	R	39k 1/16W Metal Oxide	AA
R386	VRS-CY1JF153J	R	15k 1/16W Metal Oxide	AA
R387	VRS-CY1JF153J	R	15k 1/16W Metal Oxide	AA
R388	VRS-CY1JF183J	R	18k 1/16W Metal Oxide	AA
R389	VRS-CY1JF333J	R	33k 1/16W Metal Oxide	AA
R390	VRS-CY1JF333J	R	33k 1/16W Metal Oxide	AA
R391	VRS-CY1JF182J	R	1.8k 1/16W Metal Oxide	AA
R392	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R393	VRS-CY1JF184J	R	180k 1/16W Metal Oxide	AA
R394	VRS-CY1JF184J	R	180k 1/16W Metal Oxide	AA
R395	VRD-RA2BE563J	R	56k 1/8W Carbon	AA
R396	VRD-RM2HD181J	R	180 1/2W Carbon	AA
R400	VRS-CY1JF750J	R	75 1/16W Metal Oxide	AA
R401	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R402	VRD-RA2BE102J	R	1k 1/8W Carbon	AA
R403	VRD-RA2BE102J	R	1k 1/8W Carbon	AA
R404	VRS-CY1JF750J	R	75 1/16W Metal Oxide	AA
R405	VRS-CY1JF750J	R	75 1/16W Metal Oxide	AA
R406	VRD-RA2BE102J	R	1k 1/8W Carbon	AA
R407	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R408	VRS-CY1JF750J	R	75 1/16W Metal Oxide	AA
R409	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R410	VRS-CY1JF750J	R	75 1/16W Metal Oxide	AA
R411	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R412	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R413	VRS-CY1JF750J	R	75 1/16W Metal Oxide	AA
R415	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R416	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R417	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R418	VRD-RA2BE750J	R	75 1/8W Carbon	AA
R419	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R420	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R421	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R422	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R423	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R424	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R425	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R426	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R427	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R428	VRD-RM2HD331J	R	330 1/2W Carbon	AA
R429	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R430	VRD-RM2HD750J	R	75 1/2W Carbon	AA
R431	VRD-RM2HD820J	R	82 1/2W Carbon	AA
R432	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R433	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R434	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R435	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R436	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R437	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R438	VRD-RA2BE562J	R	5.6k 1/8W Carbon	AA
R439	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R440	VRD-RA2BE123J	R	12k 1/8W Carbon	AA
R441	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R442	VRS-CY1JF101J	R	100 1/16W Metal Oxide (29A-SX5C)	AA
R443	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R444	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R445	VRS-CY1JF681J	R	680 1/16W Metal Oxide	AA
R446	VRS-CY1JF100J	R	10 1/16W Metal Oxide	AA
R447	VRS-CY1JF473J	R	47k 1/16W Metal Oxide	AA
R450	VRS-CY1JF271J	R	270 1/16W Metal Oxide	AA
R452	VRS-CY1JF152J	R	1.5k 1/16W Metal Oxide	AA
R454	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R455	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R456	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R457	VRS-CY1JF223J	R	22k 1/16W Metal Oxide	AA
R458	VRS-CY1JF562J	R	5.6k 1/16W Metal Oxide	AA
R459	VRD-RM2HD680J	R	68 1/2W Carbon	AA
R460	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R461	VRS-CY1JF471J	R	470 1/16W Metal Oxide	AA
R462	VRS-CY1JF471J	R	470 1/16W Metal Oxide	AA
R463	VRS-CY1JF151J	R	150 1/16W Metal Oxide	AA
R464	VRS-CY1JF393J	R	39k 1/16W Metal Oxide	AA
R465	VRS-CY1JF273J	R	27k 1/16W Metal Oxide	AA
R466	VRS-CY1JF182J	R	1.8k 1/16W Metal Oxide	AA
R467	VRD-RA2EE471J	R	470 1/4W Carbon	AA
R468	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R469	VRS-CY1JF471J	R	470 1/16W Metal Oxide	AA
R470	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R471	VRS-CY1JF393J	R	39k 1/16W Metal Oxide	AA
R472	VRS-CY1JF273J	R	27k 1/16W Metal Oxide	AA
R473	VRS-CY1JF223J	R	22k 1/16W Metal Oxide	AA
R474	VRS-CY1JF332J	R	3.3k 1/16W Metal Oxide	AA
R475	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R476	VRS-CY1JF331J	R	330 1/16W Metal Oxide	AA
R477	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R478	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R479	VRD-RA2BE103J	R	10k 1/8W Carbon	AA
R480	VRS-CY1JF223J	R	22k 1/16W Metal Oxide	AA
R500	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R501	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R502	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R503	VRD-RA2BE103J	R	10k 1/8W Carbon	AA
R504	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R601	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R603	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R604	VRS-CY1JF153J	R	15k 1/16W Metal Oxide	AA
R605	VRS-CY1JF332J	R	3.3k 1/16W Metal Oxide	AA
R606	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R608	VRD-RA2BE103J	R	10k 1/8W Carbon	AA
R609	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R610	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R611	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R612	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R613	VRD-RA2EE271J	R	270 1/4W Carbon	AA
R614	VRS-CY1JF184J	R	180k 1/16W Metal Oxide	AA
R615	VRS-CY1JF471J	R	470 1/16W Metal Oxide	AA
R617	VRS-CY1JF271J	R	270 1/16W Metal Oxide	AA
R618	VRS-CY1JF562J	R	5.6k 1/16W Metal Oxide	AA
R619	VRS-CY1JF682J	R	6.8k 1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R620	VRS-CY1JF684J	R	680k 1/16W Metal Oxide	AA
R621	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R622	VRS-CY1JF223J	R	22k 1/16W Metal Oxide	AA
R623	VRD-RA2EE120J	R	12 1/4W Carbon	AA
R800	VRS-CY1JF182J	R	1.8k 1/16W Metal Oxide	AA
R802	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R803	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R804	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R805	VRD-RA2BE102J	R	1k 1/8W Carbon	AA
R806	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R807	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R808	VRS-CY1JF273J	R	27k 1/16W Metal Oxide	AA
R809	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R810	VRD-RA2BE332J	R	3.3k 1/8W Carbon	AA
R811	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R812	VRD-RA2BE820J	R	82 1/8W Carbon	AA
R813	VRD-RA2BE820J	R	82 1/8W Carbon	AA
R814	VRD-RA2BE820J	R	82 1/8W Carbon	AA
R815	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R816	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R817	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R821	VRS-CY1JF471J	R	470 1/16W Metal Oxide	AA
R822	VRS-CY1JF562J	R	5.6k 1/16W Metal Oxide	AA
R823	VRS-CY1JF000J	R	0 1/16W Metal Oxide (29A-SX1F/1G/8B)	AA
R823	VRD-RA2BE561J	R	560 1/8W Carbon (29A-SX5C)	AA
R824	VRS-CY1JF000J	R	0 1/16W Metal Oxide (29A-SX1F/1G/8B)	AA
R824	VRD-RA2BE561J	R	560 1/8W Carbon (29A-SX5C)	AA
R825	VRS-CY1JF000J	R	0 1/16W Metal Oxide (29A-SX1F/1G/8B)	AA
R825	VRD-RA2BE561J	R	560 1/8W Carbon (29A-SX5C)	AA
R826	VRS-CY1JF000J	R	0 1/16W Metal Oxide (29A-SX1F/1G/8B)	AA
R826	VRS-CY1JF561J	R	560 1/16W Metal Oxide (29A-SX5C)	AA
R827	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R828	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R829	VRS-CY1JF562J	R	5.6k 1/16W Metal Oxide	AA
R830	VRS-CY1JF472J	R	4.7k 1/16W Metal Oxide	AA
R831	VRS-CY1JF562J	R	5.6k 1/16W Metal Oxide	AA
R832	VRD-RA2BE562J	R	5.6k 1/8W Carbon	AA
R837	VRS-CY1JF472J	R	4.7k 1/16W Metal Oxide	AA
R838	VRD-RA2BE472J	R	4.7k 1/8W Carbon	AA
R841	VRS-CY1JF681J	R	680 1/16W Metal Oxide	AA
R842	VRS-CY1JF681J	R	680 1/16W Metal Oxide	AA
R843	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R844	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R845	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R846	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R847	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R848	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R849	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R850	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R852	VRS-CY1JF122J	R	1.2k 1/16W Metal Oxide	AA
R853	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R854	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R855	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R857	VRS-CY1JF182J	R	1.8k 1/16W Metal Oxide	AA
R858	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R859	VRS-CY1JF391J	R	390 1/16W Metal Oxide	AA
R860	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R861	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R862	VRS-CY1JF681J	R	680 1/16W Metal Oxide	AA
R863	VRS-CY1JF681J	R	680 1/16W Metal Oxide	AA
R864	VRS-CY1JF750J	R	75 1/16W Metal Oxide	AA
R865	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R867	VRD-RA2BE222J	R	2.2k 1/8W Carbon	AA
R869	VRS-CY1JF681J	R	680 1/16W Metal Oxide	AA
R870	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R871	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R872	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R873	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R874	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R875	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R876	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R877	VRS-CY1JF750J	R	75 1/16W Metal Oxide	AA
R878	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R900	VRS-CY1JF475J	R	4.7M 1/16W Metal Oxide	AA
R901	VRS-CY1JF561J	R	560 1/16W Metal Oxide	AA
R902	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R903	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R904	VRS-CY1JF223J	R	22k 1/16W Metal Oxide	AA
R905	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R906	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R907	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R1000	VRS-CY1JF333J	R	33k 1/16W Metal Oxide	AA
R1001	VRS-CY1JF562J	R	5.6k 1/16W Metal Oxide	AA
R1002	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R1003	VRD-RA2BE562J	R	5.6k 1/8W Carbon	AA
R1004	VRD-RA2BE562J	R	5.6k 1/8W Carbon	AA
R1005	VRS-CY1JF333J	R	33k 1/16W Metal Oxide	AA
R1006	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R1007	VRS-CY1JF473J	R	47k 1/16W Metal Oxide	AA
R1008	VRS-CY1JF473J	R	47k 1/16W Metal Oxide	AA
R1009	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R1010	VRS-CY1JF683J	R	68k 1/16W Metal Oxide	AA
R1011	VRD-RA2BE102J	R	1k 1/8W Carbon	AA
R1012	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R1014	VRD-RA2BE563J	R	56k 1/8W Carbon (29A-SX1F/1G)	AA
R1015	VRD-RA2BE563J	R	56k 1/8W Carbon (29A-SX1F/1G)	AA
R1016	VRD-RA2BE563J	R	56k 1/8W Carbon	AA
R1017	VRS-CY1JF223J	R	22k 1/16W Metal Oxide	AA
R1018	VRS-CY1JF223J	R	22k 1/16W Metal Oxide	AA
R1019	VRD-RA2BE332J	R	3.3k 1/8W Carbon	AA
R1020	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1021	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1022	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1023	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1025	VRD-RA2BE102J	R	1k 1/8W Carbon	AA
R1026	VRD-RA2BE102J	R	1k 1/8W Carbon	AA
R1027	VRD-RA2BE102J	R	1k 1/8W Carbon	AA
R1028	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R1029	VRS-CY1JF223J	R	22k 1/16W Metal Oxide	AA
R1030	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R1031	VRS-CY1JF393J	R	39k 1/16W Metal Oxide	AA
R1032	VRS-CY1JF393J	R	39k 1/16W Metal Oxide	AA
R1033	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1034	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1035	VRD-RA2BE102J	R	1k 1/8W Carbon	AA
R1036	VRD-RA2BE102J	R	1k 1/8W Carbon	AA
R1037	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1038	VRD-RA2BE562J	R	5.6k 1/8W Carbon	AA
R1039	VRD-RA2BE562J	R	5.6k 1/8W Carbon	AA
R1040	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1041	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1042	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1043	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1044	VRD-RA2BE562J	R	5.6k 1/8W Carbon	AA
R1046	VRD-RA2BE223J	R	22k 1/8W Carbon	AA
R1047	VRS-CY1JF332J	R	3.3k 1/16W Metal Oxide	AA
R1048	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R1049	VRS-CY1JF332J	R	3.3k 1/16W Metal Oxide	AA
R1050	VRS-CY1JF562J	R	5.6k 1/16W Metal Oxide	AA
R1051	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R1052	VRD-RA2BE272J	R	2.7k 1/8W Carbon	AA
R1053	VRS-CY1JF392J	R	3.9k 1/16W Metal Oxide	AA
R1054	VRS-CY1JF223J	R	22k 1/16W Metal Oxide	AA
R1055	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R1056	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R1057	VRS-CY1JF471J	R	470 1/16W Metal Oxide	AA
R1058	VRD-RA2BE472J	R	4.7k 1/8W Carbon	AA
R1059	VRS-CY1JF473J	R	47k 1/16W Metal Oxide	AA
R1060	VRS-CY1JF471J	R	470 1/16W Metal Oxide	AA
R1061	VRD-RA2BE472J	R	4.7k 1/8W Carbon	AA
R1062	VRS-CY1JF473J	R	47k 1/16W Metal Oxide	AA
R1063	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R1064	VRD-RA2BE472J	R	4.7k 1/8W Carbon	AA
R1065	VRS-CY1JF471J	R	470 1/16W Metal Oxide	AA
R1066	VRD-RA2BE472J	R	4.7k 1/8W Carbon	AA
R1067	VRS-CY1JF471J	R	470 1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R1068	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R1069	VRS-CY1JF273J	R	27k 1/16W Metal Oxide	AA
R1070	VRS-CY1JF822J	R	8.2k 1/16W Metal Oxide	AA
R1071	VRS-CY1JF472J	R	4.7k 1/16W Metal Oxide	AA
R1072	VRS-CY1JF222J	R	2.2k 1/16W Metal Oxide	AA
R1073	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R1074	VRD-RA2BE222J	R	2.2k 1/8W Carbon	AA
R1075	VRS-CY1JF562J	R	5.6k 1/16W Metal Oxide	AA
R1076	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1077	VRD-RA2BE472J	R	4.7k 1/8W Carbon	AA
R1078	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1079	VRD-RA2BE562J	R	5.6k 1/8W Carbon	AA
R1080	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R1081	VRS-CY1JF153J	R	15k 1/16W Metal Oxide	AA
R1086	VRS-CY1JF223J	R	22k 1/16W Metal Oxide	AA
R1087	VRS-CY1JF333J	R	33k 1/16W Metal Oxide	AA
R1088	VRD-RA2BE102J	R	1k 1/8W Carbon	AA
R1090	VRS-CY1JF273J	R	27k 1/16W Metal Oxide	AA
R1092	VRS-CY1JF563J	R	56k 1/16W Metal Oxide (29A-SX1F/1G/8B)	AA
R1093	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1094	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R1095	VRS-CY1JF563J	R	56k 1/16W Metal Oxide	AA
R1096	VRS-CY1JF563J	R	56k 1/16W Metal Oxide	AA
R1097	VRS-CY1JF563J	R	56k 1/16W Metal Oxide	AA
R1098	VRD-RA2BE101J	R	100 1/8W Carbon (29A-SX5C/8B)	AB
R1306	VRS-CY1JF123J	R	12k 1/16W Metal Oxide	AA
R1307	VRS-CY1JF123J	R	12k 1/16W Metal Oxide	AA
R1310	VRS-CY1JF152J	R	1.5k 1/16W Metal Oxide	AA
R1311	VRS-CY1JF152J	R	1.5k 1/16W Metal Oxide	AA
R1312	VRD-RA2BE102J	R	1k 1/8W Carbon	AA
R1313	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R1314	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R1315	VRD-RA2BE102J	R	1k 1/8W Carbon	AA
R1316	VRD-RM2HD151J	R	150 1/2W Carbon	AA
R1317	VRD-RM2HD151J	R	150 1/2W Carbon	AA
R1318	VRS-CY1JF223J	R	22k 1/16W Metal Oxide	AA
R1319	VRD-RA2BE104J	R	100k 1/8W Carbon	AA
R1320	VRD-RA2BE104J	R	100k 1/8W Carbon	AA
R1321	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R1322	VRS-CY1JF223J	R	22k 1/16W Metal Oxide	AA
R1323	VRS-CY1JF821J	R	820 1/16W Metal Oxide	AA
R1325	VRS-CY1JF682J	R	6.8k 1/16W Metal Oxide	AA
R1327	VRD-RM2HD102J	R	1k 1/2W Carbon	AA
R1328	VRD-RM2HD102J	R	1k 1/2W Carbon	AA
R1333	VRS-CY1JF223J	R	22k 1/16W Metal Oxide	AA
R1334	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R1336	VRS-VV3AB221J	R	220 1W Metal Oxide	AA
R1337	VRS-VV3AB221J	R	220 1W Metal Oxide	AA
R1338	VRS-CY1JF333J	R	33k 1/16W Metal Oxide	AA
R1339	VRS-CY1JF333J	R	33k 1/16W Metal Oxide	AA
R5400	VRD-RA2BE102J	R	1k 1/8W Carbon	AA
R5401	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R5402	VRS-CY1JF333J	R	33k 1/16W Metal Oxide	AA
R5403	VRS-CY1JF473J	R	47k 1/16W Metal Oxide	AA
R5404	VRS-CY1JF561J	R	560 1/16W Metal Oxide	AA
R5405	VRS-CY1JF681J	R	680 1/16W Metal Oxide	AA
R5407	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R5408	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R5409	VRS-CY1JF821J	R	820 1/16W Metal Oxide	AA
R5410	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R5411	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R5412	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R5413	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R5415	VRS-CY1JF821J	R	820 1/16W Metal Oxide	AA
R5416	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R5417	VRS-CY1JF223J	R	22k 1/16W Metal Oxide	AA
R5418	VRS-CY1JF152J	R	1.5k 1/16W Metal Oxide	AA
R5419	VRS-CY1JF561J	R	560 1/16W Metal Oxide	AA
R5420	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R5421	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R5422	VRS-CY1JF473J	R	47k 1/16W Metal Oxide	AA
R5423	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R5424	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R5425	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R5426	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R5427	VRS-CY1JF821J	R	820 1/16W Metal Oxide	AA
R5428	VRS-CY1JF332J	R	3.3k 1/16W Metal Oxide	AA
R5429	VRS-CY1JF561J	R	560 1/16W Metal Oxide	AA
R5430	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R5431	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R5432	VRS-CY1JF331J	R	330 1/16W Metal Oxide	AA
R5433	VRS-CY1JF123J	R	12k 1/16W Metal Oxide	AA
R5434	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R5437	VRS-CY1JF561J	R	560 1/16W Metal Oxide	AA
R5438	VRS-CY1JF822J	R	8.2k 1/16W Metal Oxide	AA
R5439	VRS-CY1JF123J	R	12k 1/16W Metal Oxide	AA

SWITCHES

Ref. No.	Part No.	★	Description	Code
S1000	QSW-K0079GEZZ	R	Switch, CH Up	AB
S1001	QSW-K0079GEZZ	R	Switch, CH Down	AB
S1002	QSW-K0079GEZZ	R	Switch, VOL Up	AB
S1003	QSW-K0079GEZZ	R	Switch, VOL Down	AB
S1004	QSW-K0079GEZZ	R	Switch, Pre Set	AB

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
RDA1300	PRDAR0265PEFW	R	Heat Sink, IC1300	AD
RDA1301	PRDAR0265PEFW	R	Heat Sink, IC1301	AD
	PSLDM0212PEFW	R	Shield	AE
	PSLDM0213PEFW	R	Shield	AD
	PSLDM0238PEFW	R	Shield	AC
SLD5400	PSLDM0283PEFW	R	Shield	AD
SLD5401	PSLDM0284PEFW	R	Shield	AC
	PSLDM0294PEFW	R	Shield	AF
J300	QJAKJ0047CEZZ	R	Jack, Head Phone Jack	AD
P400	QPLGN0761CEZZ	R	Plug, 7 Pin	AD
P401	QPLGN0761CEZZ	R	Plug, 7 Pin	AD
P502	QPLGN1061CEZZ	R	Plug, 10 Pin	AC
P600	QPLGN0861CEZZ	R	Plug, 8 Pin	AC
P800	QPLGN0861CEZZ	R	Plug, 8 Pin	AC
P801	QPLGN0885CEZZ	R	Plug, 8 Pin(29A-SX5C)	AC
P802	QPLGN0785CEZZ	R	Plug, 7 Pin(29A-SX5C)	AC
P1000	QPLGN0661CEZZ	R	Plug, 6 Pin	AD
P1001	QPLGN0361CEZZ	R	Plug, 3 Pin	AB
P1300	QPLGN0761CEZZ	R	Plug, 7 Pin	AD
P1301	QPLGN0461CEZZ	R	Plug, 4 Pin	AB
P1302	QPLGN0361CEZZ	R	Plug, 3 Pin	AB
SC400	QSOCD0427CEZZ	R	Socket, 4 Pin	AL
SC401	QSOCD0427CEZZ	R	Socket, 4 Pin	AL
J400	QTANJ0335CEZZ	R	Terminal, Front A/V	AG
J401	QTANJ0967CEZZ	R	Terminal	AP
J402	QTANJ0527CEZZ	R	Terminal	AL
RMC1000	RRMCU0235CEZZ	R	Remote Receiver	AK
	LHLDP1056PE00	R	Holder	AC
TP901	QLUGP0102PEZZ	R	Lug	AA
TP902	QLUGP0102PEZZ	R	Lug	AA
TP903	QLUGP0102PEZZ	R	Lug	AA

PWB-B DUNTK9847FMV0(29A-SX8B)
PWB-B DUNTK9847FMV1(29A-SX5C)
PWB-B DUNTK9847FMV2(29A-SX1F/1G)
PWB-B DUNTK9847FMV4(29A-SX5Z)
POWER UNIT

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC700	VHiSTRM6821-1	R	STRM6821A	AZ
IC750	VHiKA7809Pi-1	R	KA7809PI	AE
IC751	VHiSi3051N/-1	R	SI3051N	AL
IC752	VHiSE120N//-1	R	SE120N	AG
IC753	RH-iX0037CEZZ	R	IX0037CE	AF
IC1500	VHiTA1241AN-1	R	TA1241AN	AM
IC1501	VHiTA8427K/-1	R	TA8427K	AL
IC1700	VHiMiP0253/-1	R	MIP0253	AM
IC1750	VHiSi3051N/-1	R	SI3051N	AL

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
D704	VHSTF861S//-1	R	SI.Control Rectifier	AK
Q700	VS2SC1815YW-1	R	2SC1815YW	AC
Q750	VS2SC1815GW-1	R	2SC1815GW	AB
Q751	VS2SC1815GW-1	R	2SC1815GW	AB

Ref. No.	Part No.	★	Description	Code
Q1308	VS2SA1015Y/1E	R	2SA1015Y	AC
Q1309	VS2SC1815GW-1	R	2SC1815GW	AB
Q1500	VS2SC1815GW-1	R	2SC1815GW	AB
Q1600	VS2SC2482//-1	R	2SC2482	AD
Q1601	VS2SD2581//1E	R	2SD2581	AL
Q1602	VS2SA1015Y/1E	R	2SA1015Y	AC
Q1603	VS2SD2045//-1	R	2SD2045	AL
Q1604	VS2SC1815GW-1	R	2SC1815GW	AB
Q1750	VS2SC1815GW-1	R	2SC1815GW	AB
Q1751	VS2SC1959Y/1E	R	2SC1959Y	AC

DIODES AND LED'S

Ref. No.	Part No.	★	Description	Code
D700	RH-DX0336CEZZ	R	DX0336CE	AH
D701	RH-DX0321CEZZ	R	DX0321CE	AC
D702	RH-DX0130CEZZ	R	DX0130CE	AE
D703	RH-DX0130CEZZ	R	DX0130CE	AE
D705	RH-DX0130CEZZ	R	DX0130CE	AE
D750	RH-DX0243CEZZ	R	DX0243CE	AF
D751	RH-DX0243CEZZ	R	DX0243CE	AF
D752	RH-DX0373CEZZ	R	DX0373CE	AC
D753	RH-DX0373CEZZ	R	DX0373CE	AC
D754	RH-DX0452CEZZ	R	DX0452CE	AH
D755	RH-DX0475CEZZ	R	DX0475CE	AB
D756	RH-DX0475CEZZ	R	DX0475CE	AB
D757	RH-DX0475CEZZ	R	DX0475CE	AB
D758	RH-EX0152CEZZ	R	Zener Diode	AE
D759	RH-EX0611GEZZ	R	Zener Diode, 5.1V	AA
D760	RH-EX0611GEZZ	R	Zener Diode, 5.1V	AA
D764	RH-DX0475CEZZ	R	DX0475CE	AB
D765	RH-DX0475CEZZ	R	DX0475CE	AB
D766	RH-DX0475CEZZ	R	DX0475CE	AB
D767	RH-EX0631GEZZ	R	Zener Diode, 9.1V	AA
D1500	RH-EX0619GEZZ	R	Zener Diode, 6.2V	AA
D1501	RH-EX0619GEZZ	R	Zener Diode, 6.2V	AA
D1503	RH-EX0619GEZZ	R	Zener Diode, 6.2V	AA
D1505	RH-EX0619GEZZ	R	Zener Diode, 6.2V	AA
D1506	RH-DX0279CEZZ	R	DX0279CE	AB
D1600	RH-DX0130CEZZ	R	DX0130CE	AE
D1601	RH-DX0302CEZZ	R	DX0302CE	AC
D1602	RH-DX0127CEZZ	R	DX0127CE	AC
D1603	RH-EX0631GEZZ	R	Zener Diode, 9.1V	AA
D1604	RH-EX0795CEZZ	R	Zener Diode	AB
D1605	RH-DX0475CEZZ	R	DX0475CE	AB
D1606	RH-DX0255CEZZ	R	DX0255CE	AC
D1607	RH-DX0475CEZZ	R	DX0475CE	AB
D1610	RH-DX0229CEZZ	R	DX0229CE	AF
D1611	RH-DX0202CEZZ	R	DX0202CE	AD
D1700	RH-DX0083GEZZ	R	DX0083GE	AC
D1750	RH-DX0407CEZZ	R	DX0407CE	AD
D1751	RH-DX0475CEZZ	R	DX0475CE	AB
D1752	RH-EX1329CEZZ	R	Zener Diode, 5.6V	AD
D1753	RH-DX0475CEZZ	R	DX0475CE	AB
⚠ IC701	RH-FX0008GEZZ	R	PC123FY8	AE
⚠ IC1701	RH-FX0008GEZZ	R	PC123FY8	AE
⚠ VA700	RH-VX0048CEZZ	R	Varistor	AE

PACKAGED CIRCUIT

Ref. No.	Part No.	★	Description	Code
⚠ PR700	RMPTP0085CEZZ	R	Packaged Circuit	AL

COILS

Ref. No.	Part No.	★	Description	Code
⚠ L700	RCiLF0138CEZZ	R	Coil, CiLF0138CE	AQ
L750	RCiLP0292CEZZ	R	Coil, 100μH	AE
L751	RCiLP0292CEZZ	R	Coil, 100μH	AE
L754	RCiLP0268CEZZ	R	Coil, 47μH	AE
L1500	VP-CF331K0000	R	Peaking, 330μH	AB
L1600	RCiLZ0822CEZZ	R	Coil, CiLZ0822CE	AL
L1601	RCiLZ0720CEZZ	R	Coil, CiLZ0822CE	AL
⚠ L1700	RCiLF0021PEZZ	R	Coil, CiLF0021PE	AK

TRANSFORMERS

Ref. No.	Part No.	★	Description	Code
⚠ T700	RTRNZ0160PEZZ	R	Transformer	AU
⚠ T1600	RTRNF0183PEZZ	R	H-Volt Transformer	BC
T1601	RTRNZ0057PEZZ	R	Transformer	AK
⚠ T1700	RTRNZ0159PEZZ	R	Transformer	AK

CONTROL

Ref. No.	Part No.	★	Description	Code
R1633	RVR-M4634GEZZ	R	Variable Resistor, 220k	AB

CAPACITORS

Ref. No.	Part No.	★	Description	Code
⚠ C700	RC-FZ086CGEZZ	R	0.47 AC250V M. Polypro	AF
C701	VCFYSB2EB224K	R	0.22 250V M. Polypro	AD
C702	RC-EZ0689CEZZ	R	680 400V Electrolytic	BA
C703	VCQPSC2JA333K	R	0.033 630V Mylar	AB
C704	RC-KZ0334CEZZ	R	270p 2kV Ceramic	AC
C705	RC-KZ0057CEZZ	R	1500p 2kV Ceramic	AD
C706	VCEAGA1HW107M	R	100 50V Electrolytic	AC
C707	VCKYPA1HB101K	R	100p 50V Ceramic	AA
C708	VCKYPA1HF103Z	R	0.01 50V Ceramic	AA
C709	VCKYPA1HB471K	R	470p 50V Ceramic	AA
C711	VCQYTA1HM103J	R	0.01 50V Mylar	AA
⚠ C713	RC-KZ016SCEZZ	R	470p 4kV Ceramic	AD
⚠ C714	RC-FZ086CGEZZ	R	0.47 AC250V M.Polypro	AF
⚠ C716	RC-KZ016SCEZZ	R	470p 4kV Ceramic	AD
C717	VCQYTA1HM332J	R	3300p 50V Mylar	AA
C720	RC-KZ0029CEZZ	R	0.01 AC250V Ceramic	AC
C721	RC-KZ0029CEZZ	R	0.01 AC250V Ceramic	AC
⚠ C722	RC-KZ0029CEZZ	R	0.01 AC250V Ceramic	AC
C723	RC-KZ0029CEZZ	R	0.01 AC250V Ceramic	AC
C750	VCKYPA2HB471K	R	470p 500V Ceramic	AA
C751	VCKYPA2HB471K	R	470p 500V Ceramic	AA
C752	VCKYPA2HB471K	R	470p 500V Ceramic	AA
C753	VCKYPA2HB471K	R	470p 500V Ceramic	AA
C754	VCKYPA2HB102K	R	1000p 500V Ceramic	AA
C755	RC-EZ0004PEZZ	R	2200 35V Electrolytic	AH
C756	RC-EZ0004PEZZ	R	2200 35V Electrolytic	AH
C757	RC-EZ0002PEZZ	R	1000 25V Electrolytic	AE
C758	RC-EZ0002PEZZ	R	1000 25V Electrolytic	AE
C759	RC-EZ0006PEZZ	R	220 160V Electrolytic	AK
C760	RC-EZ0006PEZZ	R	220 160V Electrolytic	AK
C763	RC-KZ0029CEZZ	R	0.01 250V Ceramic	AC
C764	RC-EZ0004PEZZ	R	2200 35V Electrolytic	AH
C765	RC-EZ0004PEZZ	R	2200 35V Electrolytic	AH
C766	VCEA4A1EN477M	R	470 25V Electrolytic	AC
C767	VCEA4A1EN477M	R	470 25V Electrolytic	AC
C768	RC-EZ0006PEZZ	R	220 160V Electrolytic	AK
C769	RC-KZ0029CEZZ	R	0.01 250V Ceramic	AC
C770	RC-KZ0335CEZZ	R	330p 2kV Ceramic	AD
C773	VCKYPA1HB101K	R	100p 50V Ceramic	AA
C774	VCFYFA1HA104J	R	0.1 50V M.Polypro	AA
C775	VCFYFA1HA104J	R	0.1 50V M.Polypro	AA
C776	VCEA0A1HW106M	R	10 50V Electrolytic	AB
C777	VCKYPA2HB102K	R	1000p 500V Ceramic	AA
C778	VCFYFA1HA104J	R	0.1 50V M.Polypro	AA
C1500	VCKYPA1HB221K	R	220p 50V Ceramic	AA
C1501	VCQYTA1HM223J	R	0.022 50V Mylar	AA
C1502	VCEACA1HC105K	R	1 50V Electrolytic	AC
C1503	VCFYFA1HA474J	R	0.47 50V M.Polypro	AC
C1504	VCEACA1HC105K	R	1 50V Electrolytic	AC
C1506	VCEAGA1CW108M	R	1000 16V Electrolytic	AD
C1507	VCKYPA1HF103Z	R	0.01 50V Ceramic	AA
C1508	VCQYTA1HM102J	R	1000p 50V Mylar	AA
C1509	VCQYTA1HM682J	R	6800p 50V Mylar	AB
C1510	VCEA0A1HW105M	R	1 50V Electrolytic	AB
C1511	VCEAGA1HW107M	R	100 50V Electrolytic	AC
C1512	VCQYTA1HM563J	R	0.056 50V Mylar	AB
C1513	VCKYPA2HB391K	R	390p 500V Ceramic	AA
C1514	VCQYTA1HM103J	R	0.01 50V Mylar	AA
C1515	VCFYAA2AA224J	R	0.22 100V M.Polypro	AD
C1516	VCQYTA1HM683J	R	0.068 50V Mylar	AB
C1517	VCEAGA1HW105M	R	1 50V Electrolytic	AC
C1518	VCEAGA1VW108M	R	1000 35V Electrolytic	AD
C1519	VCEACA1HC474K	R	0.47 50V Electrolytic	AB
C1520	VCQYSA2AA473K	R	0.047 100V Mylar	AC
C1521	VCCCPA1HH470J	R	47p 50V Ceramic	AA
C1600	VCFPPD2DB474J	R	0.47 200V MetalIzed Polypro Film	AE
C1601	RC-KZ0029CEZZ	R	0.01 AC250V Ceramic	AC
C1602	VCKYPA2HB471K	R	470p 500V Ceramic	AA
C1603	VCCCPA1HH101J	R	100p 50V Ceramic	AA
C1604	VCEAGA1HW106M	R	10 50V Electrolytic	AC
C1605	VCEAGA2EW336M	R	33 250V Electrolytic	AD
C1606	VCKYPA2HB102K	R	1000p 500V Ceramic	AA
C1607	VCKYPA2HB102K	R	1000p 500V Ceramic	AA
C1608	VCEA0H1VW228M	R	2200 35V Electrolytic	AH
C1609	VCKYPA2HB561K	R	560p 500V Ceramic	AA

Ref. No.	Part No.	★	Description	Code
C1610	VCFPPC2DB274J	R	0.27 200V Metallzed Polypro Film	AE
C1611	VCFPPC2DB274J	R	0.27 200V M.Polypro Metallzed Polypro Film	AE
⚠ C1612	VCFPVC3CA272H	R	2700p 1600V Metallzed Polypro Film	AD
⚠ C1613	VCFPVC3CA822H	R	8200p 1600V Metallzed Polypro Film	AE
⚠ C1614	VCFPVC3CA822H	R	8200p 1600V Metallzed Polypro Film	AE
⚠ C1615	VCQPSC2JA473K	R	0.047 630V Mylar	AB
C1616	VCE9RH1HW475K	R	4.7 50V Electrolytic	AF
C1617	VCCSPA2HL560K	R	56p 500V Ceramic	AA
C1618	VCKYPA1HF103Z	R	0.01 50V Ceramic	AA
C1619	VCFYSB2EB224K	R	0.22 250V M.Polypro	AD
C1623	VCFYSB2EB224K	R	0.22 250V M.Polypro	AD
C1624	RC-KZ0338CEZZ	R	560p 2kV Ceramic	AD
C1625	VCFPVC3CA332H	R	3300p 1600V Metallzed Polypro Film	AD
C1626	VCFYFA1HA184J	R	0.18 50V M.Polypro	AC
C1700	VCEA0A2GW475M	R	4.7 400V Electrolytic	AE
C1701	RC-KZ1022CEZZ	R	47p 1kV Ceramic	AC
C1702	VCFYFA1HA104J	R	0.1 50V M.Polypro	AA
C1703	RC-KZ0029CEZZ	R	0.01 AC250V Ceramic	AC
C1750	VCKYPA2HB221K	R	220p 500V Ceramic	AA
C1751	VCEA0A1CW477M	R	470 16V Electrolytic	AC
C1752	VCEA0A1AW227M	R	220 10V Electrolytic	AB
C1753	VCKYPA1HF103Z	R	0.01 50V Ceramic	AA

RESISTORS

Ref. No.	Part No.	★	Description	Code
R701	VRD-RM2HD391J	R	390 1/2W Carbon	AA
R702	VRW-KQ41CR82K	R	0.82 15W Cement	AF
R703	VRW-KQ4AC2R2K	R	2.2 10W Cement	AF
R704	VRS-KT3LB682J	R	6.8k 3W Metal Oxide	AC
R705	VRS-KT3LB822J	R	8.2k 3W Metal Oxide	AC
R706	VRS-KT3LB823J	R	82k 3W Metal Oxide	AC
R707	VRS-VV3DB100J	R	10 2W Metal Oxide	AA
R708	VRD-RM2HD332J	R	3.3k 1/2W Carbon	AA
R709	VRD-RA2BE122J	R	1.2k 1/8W Carbon	AA
R710	RR-WZ0170CEZZ	R	0.18 3W Cement	AE
R711	RR-WZ0170CEZZ	R	0.18 3W Cement	AE
R712	VRD-RA2BE122J	R	1.2k 1/8W Carbon	AA
R713	VRD-RA2BE472J	R	4.7k 1/8W Carbon	AA
R714	VRD-RA2BE103J	R	10k 1/8W Carbon	AA
⚠ R715	VRC-UA2HG825K	R	8.2M 1/2W Solid	AA
⚠ R716	VRC-UA2HG825K	R	8.2M 1/2W Solid	AA
R717	VRD-RA2BE102J	R	1k 1/8W Carbon	AA
R718	VRD-RM2HD560J	R	56 1/2W Carbon	AA
R750	VRD-RA2BE103J	R	10k 1/8W Carbon	AA
R751	VRD-RA2BE103J	R	10k 1/8W Carbon	AA
R752	VRD-RA2BE273J	R	27k 1/8W Carbon	AA
R753	VRD-RA2BE102J	R	1k 1/8W Carbon	AA
R754	VRD-RA2BE103J	R	10k 1/8W Carbon	AA
R755	VRD-RA2BE103J	R	10k 1/8W Carbon	AA
R756	VRD-RA2BE471J	R	470 1/8W Carbon	AA
R757	VRD-RA2BE471J	R	470 1/8W Carbon	AA
R758	VRS-KT3LB100J	R	10 3W Metal Oxide	AC
R759	VRS-KT3LB100J	R	10 3W Metal Oxide (29A-SX5C)	AC
R759	VRS-KT3LB120J	R	12 3W Metal Oxide (29A-SX1F/1G/8B)	AC
R762	VRD-RA2BE103J	R	10k 1/8W Carbon	AA
R763	VRD-RA2BE471J	R	470 1/8W Carbon	AA
R764	VRD-RA2BE471J	R	470 1/8W Carbon	AA
R765	VRD-RA2BE103J	R	10k 1/8W Carbon	AA
R769	VRS-KT3LB100J	R	10 3W Metal Oxide	AC
R770	VRN-VV3DB1R8J	R	1.8 2W Metal Film	AB
R771	VRD-RA2BE103J	R	10k 1/8W Carbon	AA
R772	VRD-RA2BE103J	R	10k 1/8W Carbon	AA
R773	VRS-VV3DB153J	R	15k 2W Metal Oxide	AA
R1329	VRS-KT3LB221J	R	220 3W Metal Oxide	AE
R1330	VRD-RA2BE103J	R	10k 1/8W Carbon	AA
R1335	VRD-RA2BE333J	R	33k 1/8W Carbon	AA
R1340	VRD-RA2BE103J	R	10k 1/8W Carbon	AA
R1341	VRD-RA2BE333J	R	33k 1/8W Carbon	AA
R1500	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1501	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1504	VRD-RA2BE221J	R	220 1/8W Carbon	AA
R1505	VRD-RA2BE183J	R	18k 1/8W Carbon	AA
R1506	VRD-RA2BE103J	R	10k 1/8W Carbon	AA
R1508	VRD-RA2BE102J	R	1k 1/8W Carbon	AA
R1510	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1511	VRD-RA2BE103J	R	10k 1/8W Carbon	AA
R1512	VRD-RA2BE124J	R	120k 1/8W Carbon	AA
R1513	VRD-RA2BE223J	R	22k 1/8W Carbon	AA
R1514	VRD-RA2BE123J	R	12k 1/8W Carbon	AA
R1515	VRD-RA2BE124J	R	120k 1/8W Carbon	AA
R1516	VRD-RA2BE124J	R	120k 1/8W Carbon	AA
R1517	VRD-RA2BE125J	R	1.2M 1/8W Carbon	AA
R1520	VRD-RA2BE102J	R	1k 1/8W Carbon	AA
R1521	VRD-RA2BE101J	R	100 1/8W Carbon	AB
⚠ R1522	VRG-RF2EB220J	R	22 1/4W Fuse Resistor	AB
R1523	VRD-RA2BE124J	R	120k 1/8W Carbon	AA
R1524	VRD-RA2BE683J	R	68k 1/8W Carbon	AA
R1525	VRD-RA2BE274J	R	270k 1/8W Carbon	AA
R1526	VRD-RA2BE223J	R	22k 1/8W Carbon	AA
R1527	VRD-RM2HD271J	R	270 1/2W Carbon	AA
R1528	VRD-RM2HD391J	R	390 1/2W Carbon	AA
R1529	VRD-RM2HD391J	R	390 1/2W Carbon	AA
R1530	VRD-RA2EE123J	R	12k 1/4W Carbon	AA
R1531	VRD-RM2HD2R7J	R	2.7 1/2W Carbon	AA
R1532	VRD-RM2HD2R7J	R	2.7 1/2W Carbon	AA
R1533	VRD-RM2HD2R7J	R	2.7 1/2W Carbon	AA
R1600	VRW-KQ41C4R7K	R	4.7 15W Cement	AF
R1601	VRS-KT3LB122J	R	1.2k 3W Metal Oxide	AC
R1602	VRS-KT3LB122J	R	1.2k 3W Metal Oxide	AC
R1603	VRS-VV3AB272J	R	2.7k 1W Metal Oxide	AA
R1604	VRD-RA2EE681J	R	680 1/4W Carbon	AA
R1605	VRD-RA2EE681J	R	680 1/4W Carbon	AA
R1606	VRD-RM2HD470J	R	47 1/2W Carbon	AA
R1607	VRN-VV3DB3R3J	R	3.3 2W Metal Film	AB
R1608	VRD-RA2EE101J	R	100 1/4W Carbon	AA
R1609	VRD-RM2HD101J	R	100 1/2W Carbon	AA
⚠ R1610	RR-XZ0029CEZZ	R	3.3 1/2W Fuse Resistor	AB
R1611	VRN-VV3AB2R2J	R	2.2 1W Metal Film	AA
R1612	VRD-RA2BE103J	R	10k 1/8W Carbon	AA
R1613	VRS-VV3DB561J	R	560 2W Metal Oxide	AA
R1614	VRD-RA2EE472J	R	4.7k 1/4W Carbon	AA
R1615	VRD-RA2BE472J	R	4.7k 1/8W Carbon	AA
R1616	VRD-RA2BE102J	R	1k 1/8W Carbon	AA
R1617	VRD-RM2HD222J	R	2.2k 1/2W Carbon	AA
R1618	VRN-VV3LB6R8J	R	6.8 3W Metal Film	AC
R1620	VRD-RM2HD472J	R	4.7k 1/2W Carbon	AA
R1621	VRD-RA2BE153J	R	15k 1/8W Carbon	AA
R1622	VRD-RA2BE153J	R	15k 1/8W Carbon	AA
R1623	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1624	VRD-RA2BE472J	R	4.7k 1/8W Carbon	AA
R1625	VRD-RA2BE103J	R	10k 1/8W Carbon	AA
R1626	VRD-RA2BE224J	R	220k 1/8W Carbon	AA
R1627	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1628	VRS-SU2HB102J	R	1k 1/2W Metal Oxide	AA
R1629	VRD-RA2EE393J	R	39k 1/4W Carbon	AA
R1630	VRD-RA2EE185J	R	1.8M 1/4W Carbon	AA
R1631	VRD-RA2EE334J	R	330k 1/4W Carbon	AA
R1632	VRS-VV3AB103J	R	10k 1W Metal Oxide	AA
R1634	VRD-RA2BE103J	R	10k 1/8W Carbon	AA
R1637	VRD-RA2EE124J	R	120k 1/4W Carbon	AA
R1638	VRD-RA2EE104J	R	100k 1/4W Carbon	AA
R1639	VRN-VV3DB3R3J	R	3.3 2W Metal Film	AB
R1640	VRS-SV3DB103J	R	10k 2W Metal Oxide	AA
R1641	VRD-RM2HD102J	R	1k 1/2W Carbon	AA
R1700	VRW-KP3HC220J	R	22 5W Cement	AD
R1750	VRD-RA2BE562J	R	5.6k 1/8W Carbon	AA
R1751	VRD-RA2BE332J	R	3.3k 1/8W Carbon	AA

BALUNES

Ref. No.	Part No.	★	Description	Code
FB700	RBLN-0037CEZZ	R	Balun, BLN-0037CE	AB
FB701	RBLN-0037CEZZ	R	Balun, BLN-0037CE	AB
FB702	RBLN-0037CEZZ	R	Balun, BLN-0037CE	AB
FB750	RBLN-0037CEZZ	R	Balun, BLN-0037CE	AB
FB751	RBLN-0037CEZZ	R	Balun, BLN-0037CE	AB
FB752	RBLN-0037CEZZ	R	Balun, BLN-0037CE	AB
FB753	RBLN-0037CEZZ	R	Balun, BLN-0037CE	AB
FB754	RBLN-0037CEZZ	R	Balun, BLN-0037CE	AB
FB755	RBLN-0037CEZZ	R	Balun, BLN-0037CE	AB
FB756	RBLN-0037CEZZ	R	Balun, BLN-0037CE	AB

Ref. No.	Part No.	★	Description	Code
FB757	RBLN-0037CEZZ	R	Balun, BLN-0037CE	AB
FB758	RBLN-0037CEZZ	R	Balun, BLN-0037CE	AB
FB759	RBLN-0037CEZZ	R	Balun, BLN-0037CE	AB
FB1500	RBLN-0037CEZZ	R	Balun, BLN-0037CE	AB
FB1600	RBLN-0037CEZZ	R	Balun, BLN-0037CE	AB
FB1601	RBLN-0037CEZZ	R	Balun, BLN-0037CE	AB
FB1602	RBLN-0037CEZZ	R	Balun, BLN-0037CE	AB
FB1700	RBLN-0037CEZZ	R	Balun, BLN-0037CE	AB
FB1701	RBLN-0037CEZZ	R	Balun, BLN-0037CE	AB
FB1702	RBLN-0037CEZZ	R	Balun, BLN-0037CE	AB
FB1750	RBLN-0037CEZZ	R	Balun, BLN-0037CE	AB

SWITCH

⚠ S700	QSW-P0588CEZZ	R	Switch	AP

MISCELLANEOUS PARTS

⚠ FH701	QFSHD1017CEZZ	R	Fuse Holder	AC
⚠ FH702	QFSHD1018CEZZ	R	Fuse Holder	AC
⚠ F700	QFS-C5022CEZZ	R	Fuse, T5A 250V	AD
P700	QPLGN0269GEZZ	R	Plug, 2 Pin	AB
P701	QPLGN0207CEZZ	R	Plug, 2 Pin	AA
P750	QPLGN0861CEZZ	R	Plug, 8 Pin	AC
P751	QPLGN0761CEZZ	R	Plug, 7 Pin	AD
P1501	QPLGN1061CEZZ	R	Plug, 10 Pin	AC
P1600	QPLGN0160FJZZ	R	Plug, 5 Pin	AD
P1601	QPLGN0761CEZZ	R	Plug, 7 Pin	AD
P1750	QPLGN0361CEZZ	R	Plug, 3 Pin	AB
RDA700	PRDAR0220PEFW	R	Heat Sink, IC700	AR
RDA701	PRDAR0139PEFW	R	Heat Sink, D700	AC
RDA754	PRDAR0160PEFW	R	Heat Sink, D754	AF
RDA1500	PRDAR0213PEFW	R	Heat Sink, IC1501	AM
RDA1600	PRDAR0249PEFW	R	Heat Sink, Q1601	AL
RDA1601	PRDAR0257PEFW	R	Heat Sink, Q1603	AF
	PRDAR0259PEFW	R	Heat Sink, IC750	AE
	PRDAR0259PEFW	R	Heat Sink, IC751	AE
⚠ RY1700	RRLYJ0087CEZZ	R	Relay	AM
SC1600	QTiPM0083CEZZ	R	Tip	AB
	LHLDW1064PEKZ	R	Holder	AC

PWB-C DUNTK9848FMV0 CRT UNIT

INTEGRATED CIRCUITS

IC3801	VHiTDA6101Q-1	R	TDA6101Q, Red Out	AH
IC3802	VHiTDA6101Q-1	R	TDA6101Q, Green Out	AH
IC3803	VHiTDA6101Q-1	R	TDA6101Q, Blue Out	AH

TRANSISTORS

Q3801	VS2SA1246//1E	R	2SA1246	AE
Q3802	VS2SC3198-Y-1	R	2SC3198	AA
Q3851	VS2SC3198-Y-1	R	2SC3198	AA
Q3852	VS2SA1266-Y-1	R	2SA1266	AA
Q3853	VS2SA1837//-1	R	2SA1837	AF
Q3854	VS2SC4793//-1	R	2SC4793	AF

DIODES

D3801	RH-EX0647GEZZ	R	Zener Diode	AA
D3802	RH-EX0647GEZZ	R	Zener Diode	AA
D3803	RH-EX0647GEZZ	R	Zener Diode	AA
D3804	RH-DX0475CEZZ	R	DX0475CE	AB
D3805	RH-EX0718GEZZ	R	Zener Diode	AB
D3851	RH-DX0475CEZZ	R	DX0475CE	AB
D3852	RH-DX0475CEZZ	R	DX0475CE	AB
D3853	RH-DX0475CEZZ	R	DX0475CE	AB
D3854	RH-DX0443CEZZ	R	DX0443CE	AC
D3855	RH-DX0443CEZZ	R	DX0443CE	AC

CAPACITORS

C3802	VCKYPA1HF103Z	R	0.01	50V	Ceramic	AA
C3803	VCFYFA1HA104J	R	0.1	50V	M.Polypro	AA
C3804	RC-FZ0373CEZZ	R	0.033	250V	M.Polypro	AC
C3805	VCQYTA1HM472J	R	4700p	50V	Mylar	AB
C3806	VCKYPA1HF103Z	R	0.01	50V	Ceramic	AA
C3807	VCFYFA1HA104J	R	0.1	50V	M.Polypro	AA
C3808	RC-FZ0373CEZZ	R	0.033	250V	M.Polypro	AC
C3809	VCQYTA1HM472J	R	4700p	50V	Mylar	AB
⚠ C3810	RC-KZ0153CEZZ	R	1000p	3kV	Ceramic	AB
C3811	VCEA0A1CW477M	R	470	16V	Electrolytic	AC
C3812	VCEA0A1HW335M	R	3.3	50V	Electrolytic	AB
C3813	VCKYPA1HF103Z	R	0.01	50V	Ceramic	AA
C3814	VCFYFA1HA104J	R	0.1	50V	M.Polypro	AA
C3815	RC-FZ0373CEZZ	R	0.033	250V	M.Polypro	AC
C3816	VCQYTA1HM472J	R	4700p	50V	Mylar	AB
C3817	VCEA0A2EW106M	R	10	250V	Electrolytic	AD
C3818	VCEA0A1CW227M	R	220	16V	Electrolytic	AC
C3822	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C3827	RC-KZ007JCEZZ	R	0.01	250V	Ceramic	AC
C3851	VCEA0A1EW476M	R	47	25V	Electrolytic	AB
C3852	VCKYPA1HF103Z	R	0.01	50V	Ceramic	AA
C3853	VCKYPA1HF103Z	R	0.01	50V	Ceramic	AA
C3854	VCKYPA2HB472K	R	4700p	500V	Ceramic	AB
C3855	VCKYPA2HB472K	R	4700p	500V	Ceramic	AB
C3856	VCKYPA1HF103Z	R	0.01	50V	Ceramic	AA
C3857	VCEA0A1EW476M	R	47	25V	Electrolytic	AB
C3858	VCEAGA2CW106M	R	10	160V	Electrolytic	AC
C3859	VCEA0A1EW476M	R	47	25V	Electrolytic	AB
C3860	VCEAGA2CW106M	R	10	160V	Electrolytic	AC
C3861	VCCSPA2HL560K	R	56p	500V	Ceramic	AA

RESISTORS

R3801	VRD-RA2BE102J	R	1k	1/8W	Carbon	AA
R3802	VRD-RA2BE272J	R	2.7k	1/8W	Carbon	AA
R3803	VRD-RA2BE222J	R	2.2k	1/8W	Carbon	AA
⚠ R3804	VRS-VV3DB823J	R	82k	2W	Metal Oxide	AA
R3805	VRD-RA2BE101J	R	100	1/8W	Carbon	AB
R3806	VRD-RM2HD101J	R	100	1/2W	Carbon	AA
R3807	VRC-MA2HG152K	R	1.5k	1/2W	Solid	AA
R3810	VRD-RA2BE102J	R	1k	1/8W	Carbon	AA
R3811	VRD-RA2BE272J	R	2.7k	1/8W	Carbon	AA
R3812	VRD-RA2BE222J	R	2.2k	1/8W	Carbon	AA
⚠ R3813	VRS-VV3DB823J	R	82k	2W	Metal Oxide	AA
R3814	VRD-RA2BE101J	R	100	1/8W	Carbon	AB
R3815	VRD-RM2HD101J	R	100	1/2W	Carbon	AA
R3816	VRC-MA2HG152K	R	1.5k	1/2W	Solid	AA
R3817	VRD-RA2BE152J	R	1.5k	1/8W	Carbon	AA
R3819	VRD-RA2BE392J	R	3.9k	1/8W	Carbon	AA
R3820	VRD-RA2BE154J	R	150k	1/8W	Carbon	AA
R3821	VRD-RA2BE333J	R	33k	1/8W	Carbon	AA
R3822	VRD-RA2BE102J	R	1k	1/8W	Carbon	AA
R3823	VRD-RA2BE272J	R	2.7k	1/8W	Carbon	AA
R3824	VRD-RA2BE222J	R	2.2k	1/8W	Carbon	AA
⚠ R3825	VRS-VV3DB823J	R	82k	2W	Metal Oxide	AA
R3826	VRD-RA2BE101J	R	100	1/8W	Carbon	AB
R3827	VRD-RM2HD101J	R	100	1/2W	Carbon	AA
R3828	VRC-MA2HG152K	R	1.5k	1/2W	Solid	AA
R3829	VRD-RM2HD224J	R	220k	1/2W	Carbon	AA
R3830	VRD-RA2BE223J	R	22k	1/8W	Carbon	AA
R3831	VRD-RA2BE223J	R	22k	1/8W	Carbon	AA
R3832	VRD-RA2EE680J	R	68	1/4W	Carbon	AA
R3833	VRC-MA2HG335J	R	3.3M	1/2W	Solid	AC
R3851	VRD-RM2HD560J	R	56	1/2W	Carbon	AA
R3852	VRD-RA2BE101J	R	100	1/8W	Carbon	AB
R3853	VRD-RA2BE222J	R	2.2k	1/8W	Carbon	AA
R3854	VRD-RA2BE100J	R	10	1/8W	Carbon	AA
R3855	VRD-RA2BE820J	R	82	1/8W	Carbon	AA
R3857	VRD-RA2BE820J	R	82	1/8W	Carbon	AA
R3858	VRD-RA2BE122J	R	1.2k	1/8W	Carbon	AA
R3859	VRD-RA2BE683J	R	68k	1/8W	Carbon	AA
R3860	VRD-RA2BE683J	R	68k	1/8W	Carbon	AA
R3861	VRD-RA2BE122J	R	1.2k	1/8W	Carbon	AA
R3862	VRD-RA2BE123J	R	12k	1/8W	Carbon	AA
⚠ R3863	VRS-VV3DB821J	R	820	2W	Metal Oxide	AA
R3864	VRD-RA2EE560J	R	56	1/4W	Carbon	AA
R3865	VRD-RA2EE560J	R	56	1/4W	Carbon	AA
R3866	VRD-RA2EE2R7J	R	2.7	1/4W	Carbon	AA
R3867	VRD-RA2EE2R7J	R	2.7	1/4W	Carbon	AA
⚠ R3868	VRS-VV3DB221J	R	220	2W	Metal Oxide	AA

BALUN

FB3851	RBLN-0047CEZZ	R	Balun, BLN-0047CE	AB

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
	QCNW-1885PEZZ	R	Connection Cord(VM P-Mag)	AG
	QCNW-2330PEZZ	R	Connection Cord(KY)	AG
	QCNW-2331PEZZ	R	Connection Cord(H)	AH
P3801	QPLGN0861CEZZ	R	Plug, 8 Pin	AC
P3802	QPLGN0761CEZZ	R	Plug, 7 Pin	AD
P3851	QPLGN0261CEZZ	R	Plug, 2 Pin	AB
⚠ SC3800	QSOCV0938CEZZ	R	Socket, 12 Pin	AK
⚠ SC3801	QTiPM0083CEZZ	R	Tip	AB
SC3802	QTiPM0083CEZZ	R	Tip	AB
SC3803	QSOCZ0003CEZZ	R	Socket	AD
SC3804	QTiPM0083CEZZ	R	Tip	AB
RDA1501	PRDAR0083PEFW	R	Heat Sink, Q1501	AD
RDA1502	PRDAR0083PEFW	R	Heat Sink, Q1502	AD

PWB-D DUNTK9868FMV4(29A-SX8B)
PWB-D DUNTK9868FMV5(29A-SX5C/5Z)
NICAM/IGR UNIT

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC2300	VHiTDA9874H-1	R	TDA9874H	BH
IC2301	VHiTDA9808T-1	R	TDA9808T	AR

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q2301	VS2SD601A//-1	R	2SD601A	AC
Q2302	VS2SC2735//1E	R	2SC2735	AC
Q2303	VS2SC2735//1E	R	2SC2735	AC

DIODE

Ref. No.	Part No.	★	Description	Code
D2300	VHDHVU350B/-1	R	HVU350B	AC

CRYSTAL

Ref. No.	Part No.	★	Description	Code
X2301	RCRSB0259CEZZ	R	Crystal, CRSB0259CE, 24.56MHz	AK

FILTER

Ref. No.	Part No.	★	Description	Code
SF2300	RFiLC0016PEZZ	R	Filter	AS

COILS

Ref. No.	Part No.	★	Description	Code
L2340	VP-XF220K0000	R	Peaking, 22µH	AB
L2341	VP-XF1R2K0000	R	Peaking, 1.2µH	AB
T2300	RCiLD0231CEZZ	R	Detection Coil	AF

CAPACITORS

Ref. No.	Part No.	★	Description	Code
C2301	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C2302	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C2303	VCFYFA1HA474J	R	0.47 50V M.Polypro	AC
C2304	VCFYFA1HA474J	R	0.47 50V M.Polypro	AC
C2305	VCFYFA1HA474J	R	0.47 50V M.Polypro	AC
C2307	VCFYFA1HA334J	R	0.33 50V M.Polypro	AB
C2308	VCKYCY1EB223K	R	0.022 25V Ceramic	AA
C2309	VCCCCY1HH330J	R	33p 50V Ceramic	AA
C2310	VCCCCY1HH330J	R	33p 50V Ceramic	AA
C2313	VCFYFA1HA474J	R	0.47 50V M.Polypro	AC
C2314	VCCCCY1HH470J	R	47p 50V Ceramic	AA
C2315	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C2316	VCCCCY1HH470J	R	47p 50V Ceramic	AA
C2317	VCEA0A1HW105M	R	1 50V Electrolytic	AB
C2320	VCFYFA1HA474J	R	0.47 50V M.Polypro	AC
C2323	VCEA0A1CW107M	R	100 16V Electrolytic	AC
C2324	VCFYFA1HA474J	R	0.47 50V M.Polypro	AC
C2325	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C2326	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C2327	VCEA0A1CW476M	R	47 16V Electrolytic	AB
C2328	VCFYFA1HA474J	R	0.47 50V M.Polypro	AC
C2340	VCEA0A1HW224M	R	0.22 50V Electrolytic	AB
C2341	VCEA0A1HW104M	R	0.1 50V Electrolytic	AB
C2342	VCEA0A1CW226M	R	22 16V Electrolytic	AB
C2343	VCE9GA1HW105M	R	1 50V Electrolytic	AB
C2344	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C2345	VCCCCY1HH330J	R	33p 50V Ceramic	AA
C2346	VCCCCY1HH330J	R	33p 50V Ceramic	AA
C2348	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C2349	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C2350	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C2351	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C2352	VCEA0A1CW476M	R	47 16V Electrolytic	AB
C2353	VCFYFA1HA124J	R	0.12 50V M.Polypro	AC
C2354	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C2356	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C2357	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C2358	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C2359	VCEA0A1CW106M	R	10 16V Electrolytic	AB
C2360	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C2361	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C2362	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C2363	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA

RESISTORS

Ref. No.	Part No.	★	Description	Code
RJ2300	VRS-CY1JF000J	R	0 1/16W Metal Oxide	AA
RJ2301	VRS-CY1JF000J	R	0 1/16W Metal Oxide	AA
RJ2302	VRS-CY1JF000J	R	0 1/16W Metal Oxide	AA
RJ2303	VRS-CY1JF000J	R	0 1/16W Metal Oxide	AA
RJ2304	VRS-CY1JF000J	R	0 1/16W Metal Oxide	AA
RJ2305	VRS-CY1JF000J	R	0 1/16W Metal Oxide	AA
RJ2306	VRS-CY1JF000J	R	0 1/16W Metal Oxide	AA
RJ2307	VRS-CY1JF000J	R	0 1/16W Metal Oxide	AA
RJ2308	VRS-CY1JF000J	R	0 1/16W Metal Oxide	AA
RJ2309	VRS-CY1JF000J	R	0 1/16W Metal Oxide	AA
RJ2310	VRS-CY1JF000J	R	0 1/16W Metal Oxide	AA
RJ2311	VRS-CY1JF000J	R	0 1/16W Metal Oxide	AA
RJ2312	VRS-CY1JF000J	R	0 1/16W Metal Oxide	AA
RJ2314	VRS-CY1JF000J	R	0 1/16W Metal Oxide	AA
RJ2315	VRS-CY1JF000J	R	0 1/16W Metal Oxide	AA
RJ2316	VRS-CY1JF000J	R	0 1/16W Metal Oxide	AA
RJ2318	VRS-CY1JF000J	R	0 1/16W Metal Oxide	AA
RJ2319	VRS-CY1JF000J	R	0 1/16W Metal Oxide	AA
RJ2320	VRS-CY1JF000J	R	0 1/16W Metal Oxide	AA
RJ2322	VRS-CY1JF000J	R	0 1/16W Metal Oxide	AA
RJ2323	VRS-CY1JF000J	R	0 1/16W Metal Oxide	AA
R2306	VRS-CY1JF393J	R	39k 1/16W Metal Oxide	AA
R2307	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R2309	VRS-CY1JF822J	R	8.2k 1/16W Metal Oxide	AA
R2311	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R2313	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R2314	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R2316	VRS-CY1JF222J	R	2.2k 1/16W Metal Oxide	AA
R2317	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R2318	VRS-CY1JF222J	R	2.2k 1/16W Metal Oxide	AA
R2322	VRS-CY1JF275J	R	2.7M 1/16W Metal Oxide	AA
R2340	VRS-CY1JF223J	R	22k 1/16W Metal Oxide	AA
R2341	VRS-CY1JF181J	R	180 1/16W Metal Oxide	AA
R2342	VRS-CY1JF183J	R	18k 1/16W Metal Oxide	AA
R2343	VRS-CY1JF561J	R	560 1/16W Metal Oxide	AA
R2344	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R2345	VRS-CY1JF183J	R	18k 1/16W Metal Oxide	AA
R2346	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R2348	VRS-CY1JF221J	R	220 1/16W Metal Oxide	AA
R2349	VRS-CY1JF393J	R	39k 1/16W Metal Oxide	AA
R2350	VRS-CY1JF152J	R	1.5k 1/16W Metal Oxide	AA
R2351	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R2352	VRS-CY1JF823J	R	82k 1/16W Metal Oxide	AA
R2353	VRS-CY1JF823J	R	82k 1/16W Metal Oxide	AA
R2354	VRS-CY1JF225J	R	2.2M 1/16W Metal Oxide	AA
R2355	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R2356	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R2357	VRS-CY1JF122J	R	1.2k 1/16W Metal Oxide	AA
R2358	VRS-CY1JF392J	R	3.9k 1/16W Metal Oxide	AA
R2359	VRS-CY1JF151J	R	150 1/16W Metal Oxide	AA
R2361	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R2362	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA

BALUNES

Ref. No.	Part No.	★	Description	Code
FB2300	RBLN-0062TAZZ	R	Balun, BLN-0062TA	AB
FB2301	RBLN-0062TAZZ	R	Balun, BLN-0062TA	AB
FB2302	RBLN-0062TAZZ	R	Balun, BLN-0062TA	AB
FB2305	RBLN-0062TAZZ	R	Balun, BLN-0062TA	AB
FB2303	RBLN-0067CEZZ	R	Balun, BLN-0067CE	AC
FB2304	RBLN-0067CEZZ	R	Balun, BLN-0067CE	AC

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
	PSLDM0260PEFW	R	Shield	AD
	PSLDM0261PEFW	R	Shield	AC
P2300	QPLGZ0610CEZZ	R	Plug, 6 Pin	AB
P2301	QPLGZ0810CEZZ	R	Plug, 8 Pin	AD

PWB-E DUNTK8558FMV8 TEXT UNIT(29A-SX5C/5Z)

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC1801	VHiLH64256C-1	R	LH64256C	AY
IC1802	RH-iX2451CEZZ	R	IX2451CE	BB

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q1801	VS2SC1815GW-1	R	2SC1815GW	AB
Q1802	VS2SA1015Y/1E	R	2SA1015Y	AC
Q1803	VS2SC1815GW-1	R	2SC1815GW	AB
Q1804	VS2SC1815GW-1	R	2SC1815GW	AB
Q1805	VS2SC1815GW-1	R	2SC1815GW	AB

DIODES

Ref. No.	Part No.	★	Description	Code
D1801	RH-DX0475CEZZ	R	DX0475CE	AB
D1802	RH-DX0475CEZZ	R	DX0475CE	AB
D1803	RH-EX0619GEZZ	R	Zener Diode	AA
D1804	RH-EX0619GEZZ	R	Zener Diode	AA

CRYSTAL

Ref. No.	Part No.	★	Description	Code
X1801	RCRSB0006PEZZ	R	Crystal, CRB0006PE	AK

COILS

Ref. No.	Part No.	★	Description	Code
L1801	VP-DF100K0000	R	Peaking, 10µH	AB
L1802	VP-XF1R0K0000	R	Peaking, 1µH	AB
L1803	VP-DF100K0000	R	Peaking, 10µH	AB

CAPACITORS

Ref. No.	Part No.	★	Description	Code
C1801	VCQYTA1HM104J	R	0.1 50V Mylar	AA
C1802	VCEAGA1AW107M	R	100 10V Electrolytic	AB
C1803	VCEAGA1AW477M	R	470 10V Electrolytic	AC
C1804	VCQYTA1HM104J	R	0.1 50V Mylar	AA
C1806	VCKYPA1HB102K	R	1000p 50V Ceramic	AA
C1807	VCCCPA1HH150J	R	15p 50V Ceramic	AA
C1808	VCCCPA1HH560J	R	56p 50V Ceramic	AA
C1810	VCQYTA1HM104J	R	0.1 50V Mylar	AA
C1811	VCE9AA1HW105M	R	1 50V Electrolytic	AB
C1812	VCQYTA1HM104J	R	0.1 50V Mylar	AA
C1813	VCEAGA1AW107M	R	100 10V Electrolytic	AB
C1814	VCEAGA1CW106M	R	10 16V Electrolytic	AA

RESISTORS

Ref. No.	Part No.	★	Description	Code
R1801	VRD-RA2BE273J	R	27k 1/8W Carbon	AA
R1802	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1803	VRD-RA2BE222J	R	2.2k 1/8W Carbon	AA
R1804	VRD-RA2BE682J	R	6.8k 1/8W Carbon	AA
R1805	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1806	VRD-RA2BE272J	R	2.7k 1/8W Carbon	AA
R1807	VRD-RA2BE100J	R	10 1/8W Carbon	AA
R1808	VRD-RA2BE821J	R	820 1/8W Carbon	AA
R1809	VRD-RA2BE821J	R	820 1/8W Carbon	AA
R1810	VRD-RA2BE102J	R	1k 1/8W Carbon	AA
R1811	VRD-RA2BE102J	R	1k 1/8W Carbon	AA
R1812	VRD-RA2BE102J	R	1k 1/8W Carbon	AA
R1813	VRD-RA2BE471J	R	470 1/8W Carbon	AA
R1814	VRD-RA2BE103J	R	10k 1/8W Carbon	AA
R1816	VRD-RA2BE472J	R	4.7k 1/8W Carbon	AA
R1817	VRD-RA2BE100J	R	10 1/8W Carbon	AA
R1818	VRD-RA2BE272J	R	2.7k 1/8W Carbon	AA
R1819	VRD-RA2BE272J	R	2.7k 1/8W Carbon	AA
R1820	VRD-RA2BE122J	R	1.2k 1/8W Carbon	AA
R1822	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1823	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1824	VRD-RA2BE472J	R	4.7k 1/8W Carbon	AA
R1825	VRD-RA2BE822J	R	8.2k 1/8W Carbon	AA
R1826	VRD-RA2BE103J	R	10k 1/8W Carbon	AA

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
P1801	QPLGN0885CEZZ	R	Plug, 8 Pin	AC
P1802	QPLGN0785CEZZ	R	Plug, 7 Pin	AC
SLD1801	PSLDM0174PEFW	R	Shield	AD
SLD1802	PSLDM0175PEFW	R	Shield	AD

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
⚠	QACCZ2008PEZZ	R	AC Cord(29A-SX1F/5C)	AM
⚠	QACCZ3008PEZZ	R	AC Cord(29A-SX1G)	AN
⚠	QACCB5003PEZZ	R	AC Cord(29A-SX8B)	AY
	QCNW-2326PEZZ	R	Connection Cord(XA)	AD
	QCNW-2327PEZZ	R	Connection Cord(XB)	AF
	QCNW-2328PEZZ	R	Connection Cord(XC)	AF
	QCNW-2329PEZZ	R	Connection Cord(XD)	AG
	QCNW-2333PEZZ	R	Connection Cord(Y)	AK
	QCNW-2334PEZZ	R	Connection Cord(SS)	AH
	QCNW-2335PEZZ	R	Connection Cord(L3) Punching	AG
	RCORF0054CEZZ	R	Core	AM

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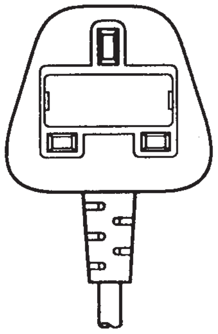
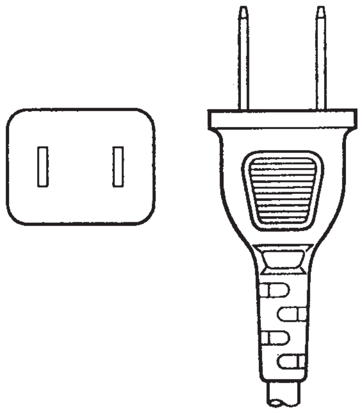
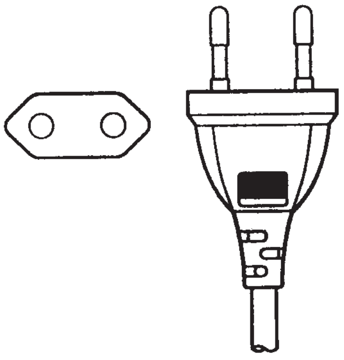
</td><td>QACCZ3008PEZZ
</td><td colspan="2">QACCZ2008PEZZ
</td></tr>
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SUPPLIED ACCESORIES

ACCESSORIES

Ref. No.	Part No.	★	Description	Code
	QPLGA0017CEZZ	R	Plug(29A-SX1G)	AK
	RRMCG1500PESA	R	Infrared R-C (29A-SX1F/1G)	AU
	RRMCG1498PESA	R	Infrared R-C (29A-SX5C)	AU
	RRMCG1497PESA	R	Infrared R-C (29A-SX8B)	AU
	TiNS-6660PEZZ	R	Operation Manual (29A-SX5C)	AG
	TiNS-6662PEZZ	R	Operation Manual (29A-SX1F/1G)	AH
	TiNS-6659PEZZ	R	Operation Manual (29A-SX8B)	AG

ACCESSORY (NOT REPLACEMENT ITEM)

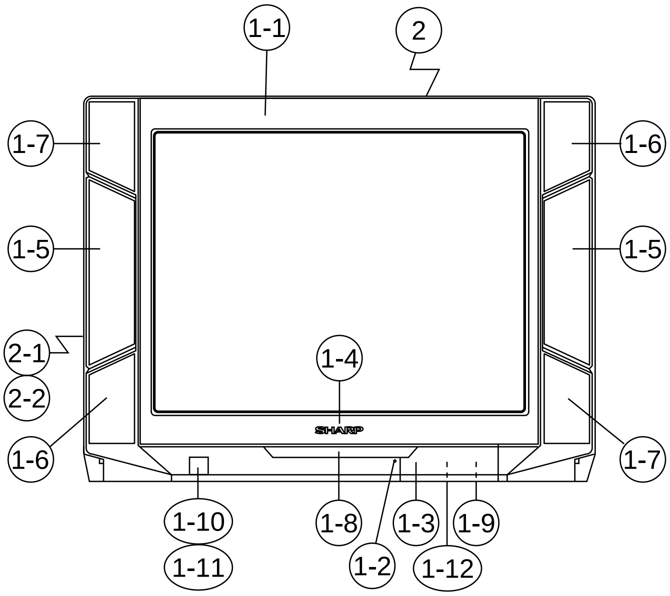
Ref. No.	Part No.	★	Description	Code
	TCAUA0002PEZZ	-	Caution Card	—

PACKING PARTS *(NOT REPLACEMENT ITEM)*

Ref. No.	Part No.	★	Description	Code
	SPAKC6517PEZZ	-	Packing Case (29A-SX1F/1G)	—
	SPAKC6515PEZZ	-	Packing Case (29A-SX5C)	—
	SPAKC6514PEZZ	-	Packing Case(29A-SX8B)	—
	SPAKP0083PEZZ	-	Wrapping Paper (29A-SX5C/8B)	—
	SPAKX2705PEZZ	-	Packing ADD.	—
	SSAKA0002PEZZ	-	Polyethylene Bag	—
	SSAKH0018PEZZ	-	Polyethylene Bag (29A-SX1F/1G)	—

CABINET PARTS

Ref. No.	Part No.	★	Description	Code
1	CCABA2486WEV0	R	Front Cabinet Ass'y (29A-SX1F/1G)	BM
1	CCABA2484WEV0	R	Front Cabinet Ass'y (29A-SX5C)	BM
1	CCABA2483WEV0	R	Front Cabinet Ass'y (29A-SX8B)	BM
1-1	*Not Available*	-	Front Cabinet (29A-SX1F/1G)	—
1-1	*Not Available*	-	Front Cabinet(29A-SX5C)	—
1-1	*Not Available*	-	Front Cabinet(29A-SX8B)	—
1-2	GCOVA0101PESA	R	Cover, R/C LED	AD
1-3	GDORF0174PESA	R	Door(29A-SX1F/1G)	AG
1-3	GDORF0172PESA	R	Door(29A-SX5C)	AG
1-3	GDORF0171PESA	R	Door(29A-SX8B)	AG
1-4	HBDGB3120CESB	R	Badge, "SHARP"	AF
1-5	HDECA0071PESB	R	Punching Plate A (29A-SX1F/1G)	AN
1-5	HDECA0071PESA	R	Punching Plate A (29A-SX5C/8B)	AN
1-6	HDECA0072PESB	R	Punching Plate B (29A-SX1F/1G)	AH
1-6	HDECA0072PESA	R	Punching Plate B (29A-SX5C/8B)	AH
1-7	HDECA0073PESB	R	Punching Plate C (29A-SX1F/1G)	AH
1-7	HDECA0073PESA	R	Punching Plate C (29A-SX5C/8B)	AH
1-8	HDECQ0131PESA	R	Decoration Plate	AH
1-9	HiNDP0235PEZZ	R	IND-P In door	AE
1-10	JBTN-0307PESA	R	Button, Power	AC
1-11	MSPRC0005PEFW	R	Spring, Power Button	AB
1-12	PKAi-0002PE00	R	Latch, For Door	AG
2	CCABB2375WEV0	R	Rear Cabinet Ass'y	BG
2-1	*Not Available*	-	Rear Cabinet	—
2-2	HiNDP0236PEZZ	R	A-V IND-P	AF



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